The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

APRIL 23 1955

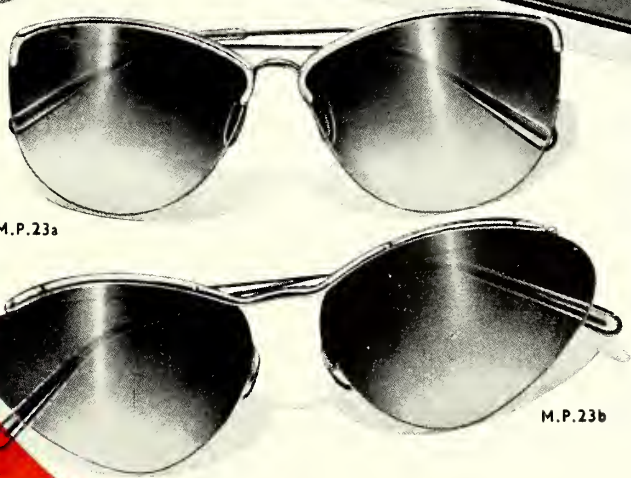
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FAMOUS M.P.23
to sell at 13/6d.







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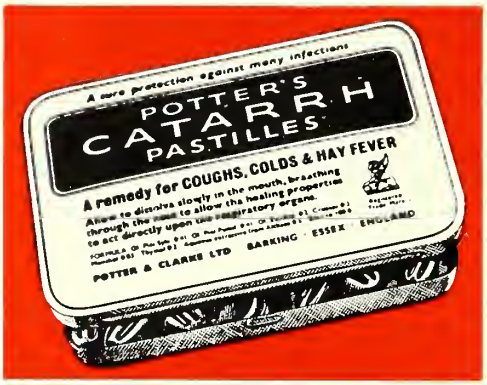
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With the famous 'fighting formula'

**POTTER'S CRYSTALLISED CATARRH PASTILLES**
For those who prefer a 'sugary taste'



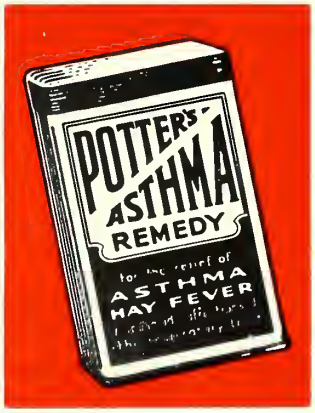




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Obtainable in three varieties:—
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Top sellers from the **Potter's** range of products

# So well known and so — well sold!




**POTTER'S ASTHMA REMEDY**
With special 'pyramid' dispenser

**POTTER'S ASTHMA CIGARETTES & SMOKING MIXTURE**




**THOMPSON'S DANDELION COFFEE**
Excellent for dyspeptics




***THROUGH WHOLESALERS ONLY PLEASE***

*Sole Manufacturers*
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RIVER ROAD · BARKING · ESSEX




# A monster spring booster campaign for Kit-E-Kat and Meet in leading National papers and magazines...96,576,000 large size advertisements within these two weeks!

## APRIL 17th TO APRIL 30th



**WITH A SPECIALLY DESIGNED SELL-OUT BOX FOR *YOUR* COUNTER CONTAINING**

**KIT-E-KAT** AND **MEET**

The Household Name for Cat Food.

$4\frac{1}{2}$ **DOZ. TINS**

the newest, biggest Sales Success—Solid Meat in Chunks.

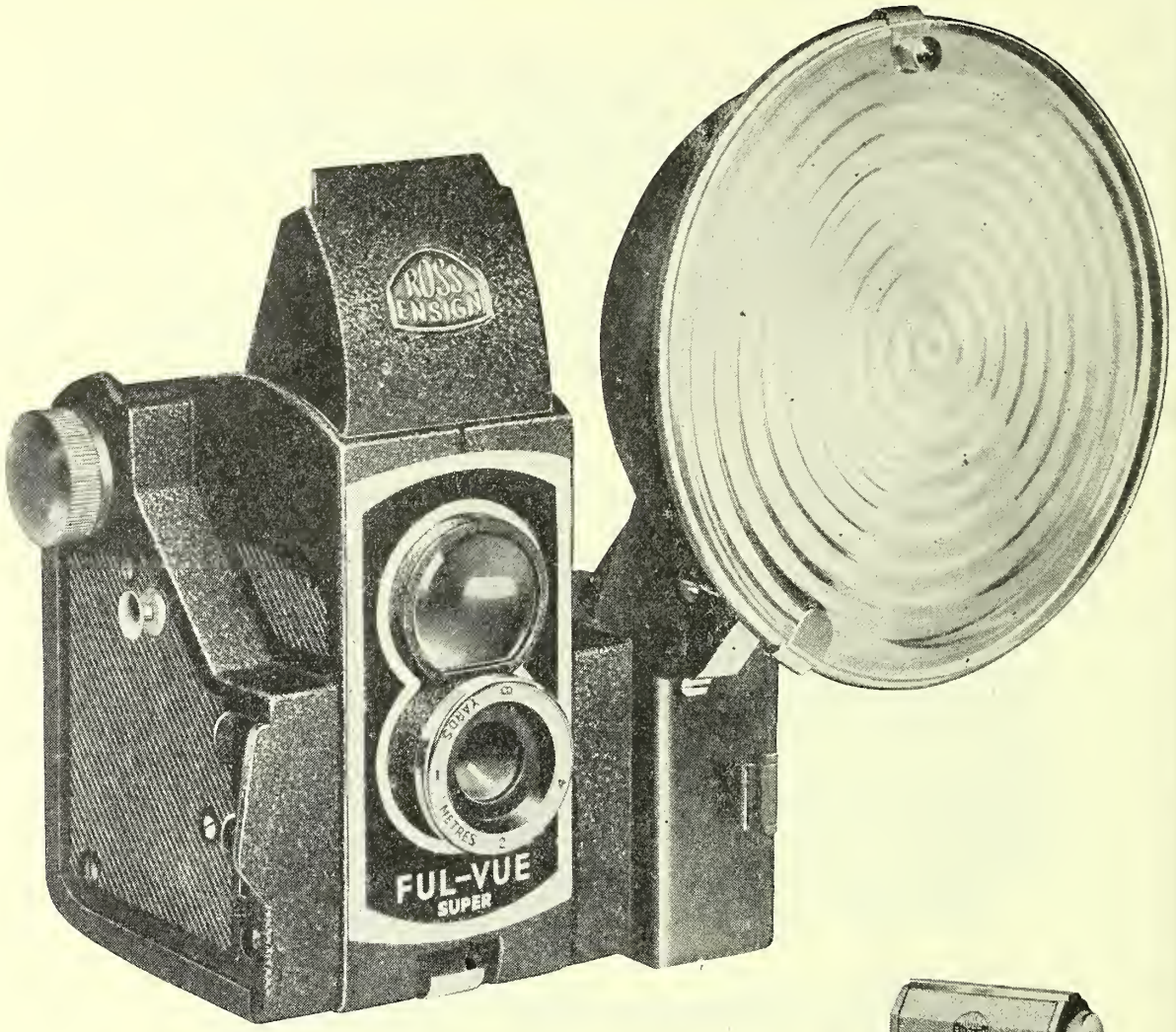
$1\frac{1}{2}$ **DOZ. TINS**

**45/9**

If in difficulty write to Sales Director, Chappie Ltd., Melton Mowbray, Leicestershire.

- *REMEMBER—PROFITS RISE AND STAY THAT WAY—WHEN YOU BACK UP WITH DISPLAY!*
- **ORDER YOUR SPECIAL SUPPLY FROM YOUR SUPPLIER NOW!**

A




ROSS ENSIGN

# FUL - VUE SUPER

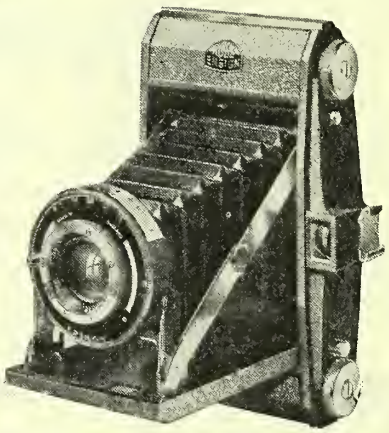
Since 1939 these popular snapshot cameras have enjoyed the largest sale of any box camera and the Ful-Vue SUPER will eclipse even this record.

A new plug-in capacitor flash unit and an ever-ready case offer exceptional opportunities for extra sales, good profits and goodwill.

**FUL-VUE CAMERA £2 - 19 - 8 FLASH UNIT £1 - 3 - 11**

**EVER-READY CASE 12/8d.**

**ROSS ENSIGN LTD., LONDON, S.W.4.**



**SNAPPER - - - £5 10 8**

**CLUBMAN (illus.) - £12 8 6**

*Two other cameras with great popular appeal. The Snapper is an excellent folding camera with the simplicity of Ful-Vue operation.*

*The Clubman with its f/4.5 lens by Ross offers exceptional value to the more advanced user. Both take 2¼ x 3¼ in. pictures on 620 film.*

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## A new pharmaceutical technique devised by 'Evans Medical'

A year ago a communication* from the Pharmaceutical Research and Development Unit of Evans Medical announced a new method of coating tablets by dry compression. Tablets so coated were given the name of 'Prescoted'. The process consists of the application of a suitable coating by compressing it, *in the dry state*, on to a pre-formed 'core' tablet containing the active ingredients; or one ingredient or a set of ingredients can be included in the 'core' and another in the coat. Coated tablets can be made to disintegrate within the period normally allotted to uncoated tablets.

***Kilian & Co., G.m.b.H., of Cologne have been licensed to produce machines embodying the devices developed by Evans Medical for the production of 'Prescoted' tablets.***

* Pharm.J. 1954.172.85. (30 January)

EVANS MEDICAL SUPPLIES LTD. LIVERPOOL and LONDON

EVANS MEDICAL

# "Skylon" POLYTHENE BOAT SHAPED BABIES FEEDING BOTTLE

**This new boat shaped babies' polythene feeding bottle has been specially developed to meet popular request. It is unbreakable, hygienic, tasteless, odourless and unaffected by foodstuffs. Openings at either end make for easy cleaning and its light weight makes it ideal for the small infant. All standard teats and valves will fit the necks.**




Packed in individual cartons with full sterilizing instructions.

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REGD TRADE MARK

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# Recommended for over 30 years




Through the expressed enthusiasm of satisfied users, and the recommendations of pharmacists, the sales of Dr. Page-Barker's Scurf and Dandruff Lotion and D.43 Shampoo have been steadily increasing over recent years.

**Make sure the public know you *stock* these firmly established treatments by displaying a Page-Barker showcard. Sent FREE on request.**

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**North Lane, Aldershot, HANTS.**

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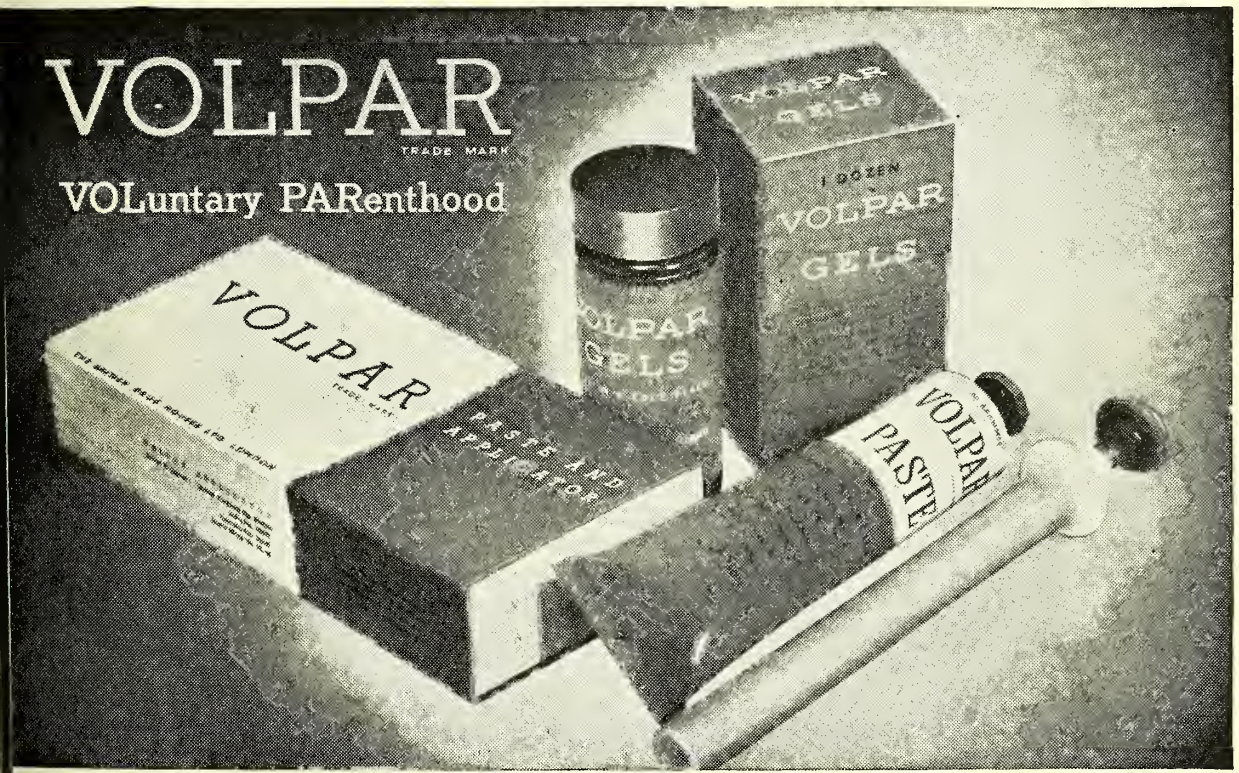
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SANTONIN B.P. CRYSTALS

(BRITISH MADE)

CARNEGIES OF WELWYN LTD

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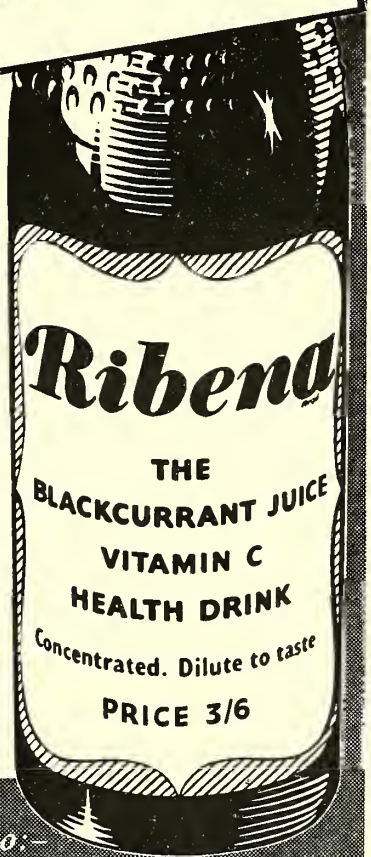
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## NEWS FLASH

+ OVER 300,000 BOTTLES RIBENA SELLING EVERY WEEK · +

+ READ £10,000 PROFIT FOR RETAILERS EVERY WEEK · +




*Each bottle you sell puts at least 8½D profit in your till*

**Ribena** *Really* **FIGHTS SALES FATIGUE**

*Be sure you cash in on this money spinner*

**Order Ribena today!**

*For new counter and window show cards write to:–*

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*Manufacturing Chemists since 1839*
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# DANDRUFF? *HERE'S THE SUREST AND SAFEST REMEDY*

*You not only make sales with Gill's shampoo; you win your customers' gratitude—confidence—goodwill!*

Remember these advantages of Gill's—the dandruff-remover shampoo with a continent-wide reputation: it speeds dandruff away at the first application; it is delightfully pleasant—exceptionally refreshing to use; it is suitable for children as well as men and women.

One customer recommends another. And up and up go sales. Make sure of your share of this profitable business.

Order from your wholesaler at 16/8d per dozen to retail at 2/6d the bottle.

*Gill's* DANDRUFF REMOVER SHAMPOO

*MADE AND DISTRIBUTED IN 12 EUROPEAN COUNTRIES.*

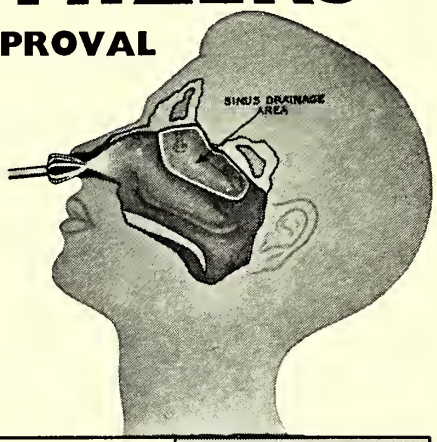
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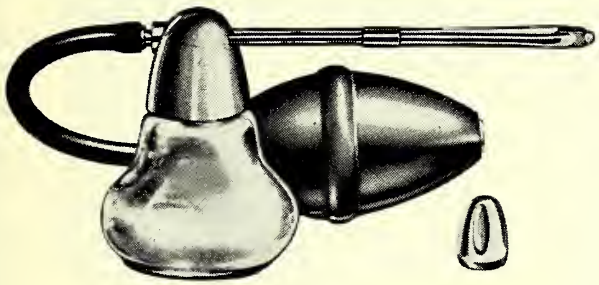
**BEAUTISALES LTD.** · **35 Old Bond Street, London, W.1.** · **Telephone: HYDe Park 2565**

# DeVILBISS MEDICINAL ATOMIZERS

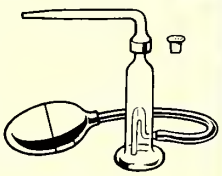
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DeVilbiss Atomizers are approved and recommended by doctors everywhere, as meeting all medical and hygienic requirements. Designed for simple, efficient operation. Write for details.



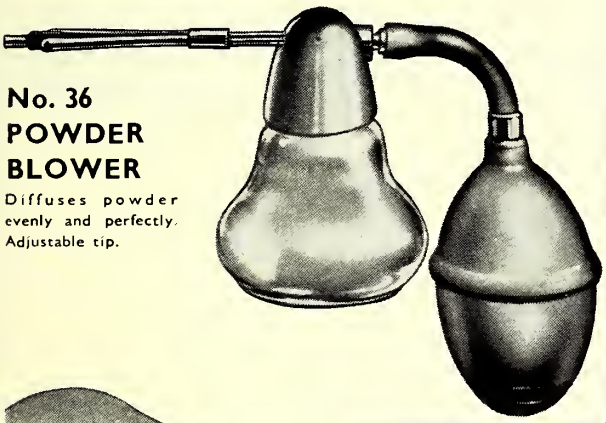
**No. 15 ATOMIZER** A practical hospital and home use atomizer for applying aqueous and oily solutions. With adjustable spray tip and detachable fluted nasal guard.



ALL-GLASS NEBULIZER No. 5 For inhalations. Gives a mist of medium fineness.

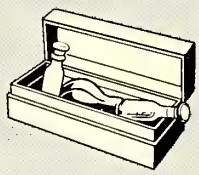


ALL-GLASS ATOMIZER No. 7 Suitable for oily or aqueous solutions.



**No. 36 POWDER BLOWER**

Diffuses powder evenly and perfectly. Adjustable tip.

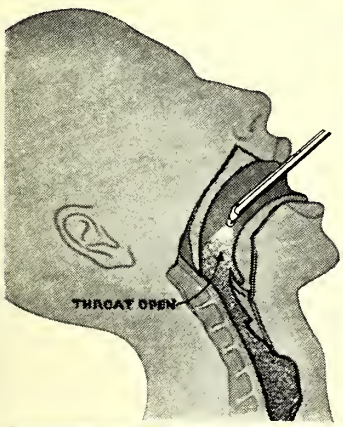


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For aerosol therapy. Volume of vapour can be increased by removing the stopper from the vent hole in the side.

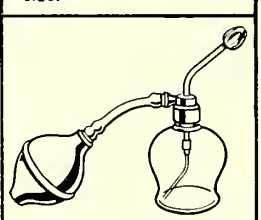





NASAL ATOMIZER No. 20. Produces a medium spray for either oily or aqueous solutions.



ATOMIZER No. 82 A nose and throat spray for either oily or aqueous solutions.



ATOMIZER No. 29 Gives a continuous spray, with nasal guard. For oily or aqueous solutions.

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**(ATOMIZER DIVISION)**
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TELEPHONE: CITY 4361 (5 LINES)




DISPENSER 9722




DISPENSER 9723

## These striking new Self-Service Dispensers




DISPENSER 9724




**DISPENSER 9725**

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## Popular Halex Combs in the Colourful NEW DISPENSERS

FAST SELLING HALEX Combs need no introduction — there are Nylon Combs for those who want the best that money can buy — with a year's guarantee — and acetate combs of the highest quality at a lower price. Add to this the advantages of the colourful new Dispensers and you have an unbeatable sales *comb*ination! NEW FREE Halex Comb Dispensers not only provide an attractive eye-catching display, but considerably simplify ordering, stocking and selling. Make sure you order these hard-working Sales Teams from your usual supplier.

| **9722 FREE DISPENSER** *contains:* | Trade price per dozen | Retail price each |
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| 2 dozen Gents' combs (*Acetate*) | 6/6d. | 1/- |
| 1 dozen Pocket or Bag combs (*Acetate*) | 8/3d. | 1/3d. |

| **9723 FREE DISPENSER** *contains:* | Trade price per dozen | Retail price each |
|---|---|---|
| 2 dozen Gents' combs (*Nylon*) | 10/- | 1/6d. |
| 1 dozen Pocket or Bag combs (*Nylon*) | 12/- | 1/9d. |

| **9724 FREE DISPENSER** *contains:* | | |
|---|---|---|
| 2 dozen Pocket combs (*Acetate*) | 6/6d. | 1/- |
| 2 dozen Bag combs (*Acetate*) | 8/3d. | 1/3d. |
| 1 dozen Tail combs (*Acetate*) | 8/3d. | 1/3d. |
| 1 dozen Ladies' dressing combs (*Acetate*) | 10/- | 1/6d. |

| **9725 FREE DISPENSER** *contains:* | | |
|---|---|---|
| 2 dozen Pocket combs (*Nylon*) | 10/- | 1/6d. |
| 2 dozen Bag combs (*Nylon*) | 12/- | 1/9d. |
| 1 dozen Tail combs (*Nylon*) | 12/- | 1/9d. |
| 1 dozen Ladies' dressing combs (*Nylon*) | 17/- | 2/6d. |

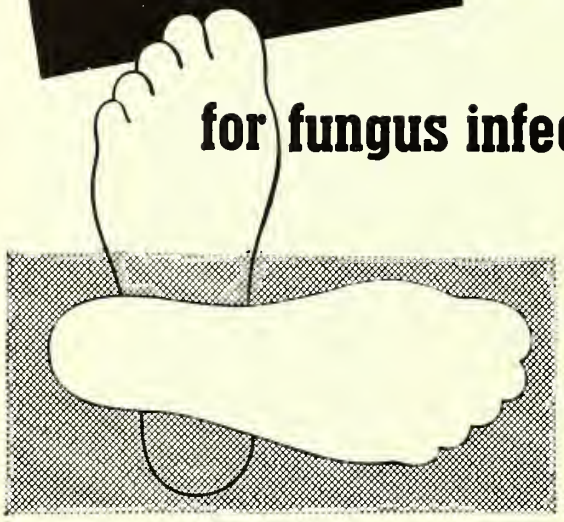
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HALEX (a Division of the British Xylonite Co. Ltd.) Highams Park, London, E.4.
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*Specifically indicated in the treatment of* **TINEA PÆDIS and TINEA CRURIS**

SUBLAMIN *is the ideal fungicidal lotion for the treatment of Tinea Pædis, Tinea Cruris, and other fungus infections of the smooth skin.*



## for fungus infections of the smooth skin

*SUBLAMIN has the following advantages:*

The excipient evaporates quickly, leaving the therapeutic substances, in finely particulate form, in intimate contact with the affected areas. In consequence, the maximum destructive effect on the invading fungus is rapidly achieved. Being non-greasy SUBLAMIN obviates the need for dressings and will not promote the growth of secondary infective organisms. Its application is extremely simple.

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**HYDROGEN PEROXIDE**

BENZOYL PEROXIDE
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EMULSIFYING WAXES

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*Tel: Luton 4390. Cables: Laporte, Luton*

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Brand of

**POTASSIUM PERCHLORATE**

Inhibits the ability of the thyroid to store iodine(1) and is thus of value in controlling Thyrotoxicosis and in the treatment of hyperthyroidism.

*(1) LANCET 1954,1,749.*

*Presentation:* Tablets each containing 200 mg (normal) or 50 mg.

*Packing:* Bottles of 100, 500 and 1,000.

**MATTHEWS & WILSON LTD.**
**6-8 COLE STREET, LONDON, S.E.1**

*Order your supplies now!*

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ROTER *for the treatment of*
## PEPTIC ULCER and GASTRITIS

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*kills flies cleanly!*

*4/- per doz. (minimum order 3 doz.)*

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*For normal or greasy skins*




*For dry, sensitive skins*




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Readers of these important National Magazines, which total well over 6 million circulation, will ask you for Scherk preparations. Be ready to supply them. We advertise — you stock — your customers buy!

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Send in now the order shown below — or its equivalent — to get a special 10% cash-and-display discount, showing you a clear profit of 38% on the *Tax-included Cost*. This discount offer closes at the end of July.

SUGGESTED MINIMUM ORDER

Scherk Face Lotion: 1 doz. No. 7109 @ 17/9, ½ doz. No. 7100 @ 28/-, ¼ doz. No. 7101 @ 44/-

Scherk Face Milk: ½ doz. No. 7200 @ 28/-, ¼ doz. No. 7201 @ 44/-

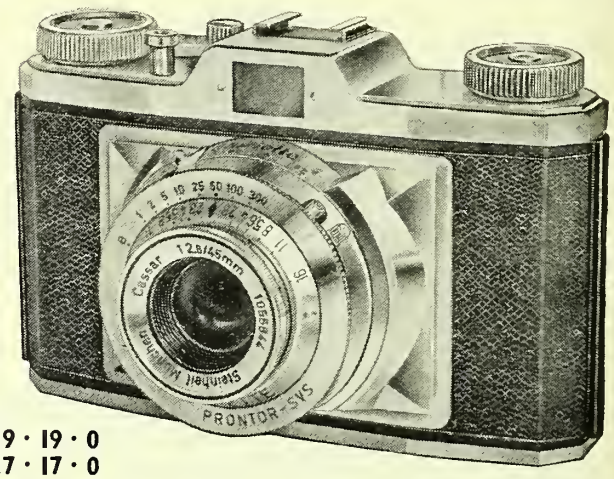
Total cost after discount and including 75% P.T., £5.10.6.

Retail price, £7.12.6. Profit, £2.2.0.

**SCHERK LTD., 66 VICTORIA STREET, LONDON, S.W.1.**

# *Amazing Value!*

**F/2·8 Steinheil-Cassar lens**
**Prontor S.V.S. Shutter, Lever Wind**
**for £19·19·0**



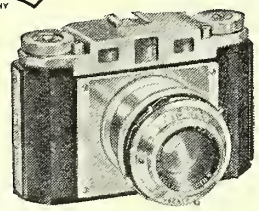

**Manufactured by the makers of the famous Paxette, the Gloriette takes 35mm. film a d is fitted with Steinheil - Cassar f/2.8 lens, lever-wind, delayed action device, flash synchronised S.V.S. shutter, body release, etc.**

Display stands and leaflets available to stockists.

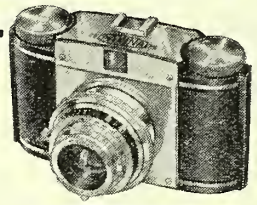
# GLORIETTE

**with 8-speed Prontor S.V.S. shutter £19·19·0**
**with 4-speed Pronto shutter £17·17·0**

BRAUN NÜRNBERG GERMANY

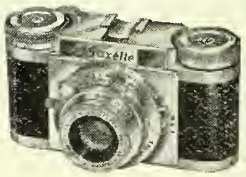


**GLORIA 2¼"×2¼"**
**Rangefinder Camera**
**Pronto 4-speed £18·18·0**
**Prontor S.V.S. £21·17·6**



**PAXINA 29 2¼"×2¼"**
**Pronto 4-speed £14·14·0**
**Prontor S.V.S. £17·17·0**

**PAXETTE I 35 mm. £21·17·6**
**PAXETTE Im 35 mm. £24·15·0**



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**SALES AIDS**

Ask for list of window displays, P.V.C. stickers, Showcards, Posters and Folders available for every Stockist.

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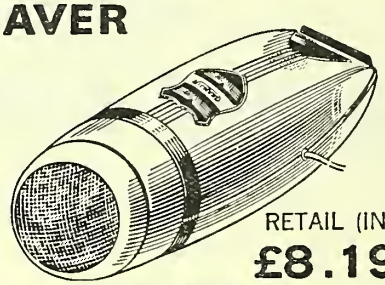
Will continue to increase the demand for Warmabed Electric Blankets.

*Write for Catalogue and trade terms*

**MODERN ELECTRICAL INDUSTRIES LTD.**
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**Tel.: Knottingley 51. Grams and Cables. "Warmabed, Knottingley"**

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the **Ribena** People

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20% on sales
plus special quantity and Window Display allowances

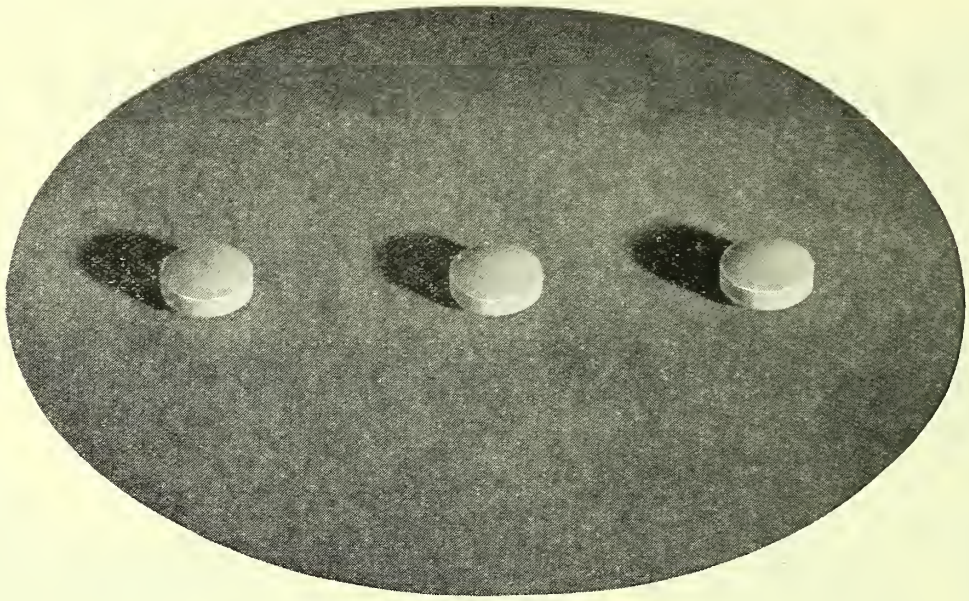
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*safeguards family hair health.*

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*Trade Price : 23/- per dozen, subject to the usual discounts.*

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*Loughborough* *Leicestershire*

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*John Bell's*

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**TABLETS**

You will find a ready sale for these tablets at this time of year, when staphylococci infections are prevalent. Make sure you are in a position to meet the steady demand for this dependable and reasonably priced preparation. Place the handy eye-appealing display outer where it can be seen on your counter — for now is the season for **Tin-Ox Tablets**.

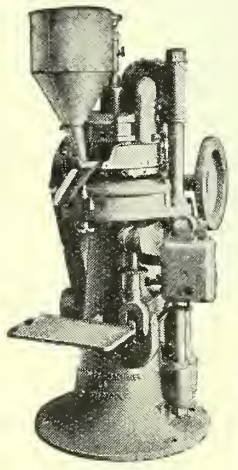
| SIZE | RETAIL PRICE | WHOLESALE PRICE |
|---|---|---|
| 25's | 1s. 8d. (Inc. Tax) | 10s. 0d. per doz. (P Tax 2/6d.) |
| 100's | 3s. 7d. (Inc. Tax) | 20s. 3d. per doz. (P. Tax 5/0½d.) |

**JOHN BELL, HILLS & LUCAS LTD.**
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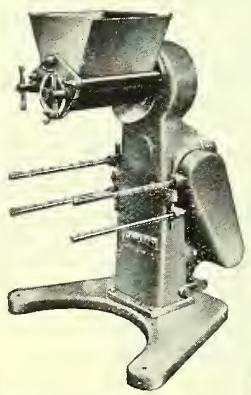
# *MANESTY TABLET MAKING MACHINERY*

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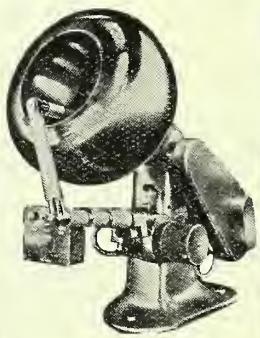
More and more Tablet Makers are turning to MANESTY precision-built tablet-making machinery because of the excellence in design and construction. Each machine is the product of British skill and craftsmanship and results from the long and specialised experience of the MANESTY organisation. The resources of the MANESTY research and technical departments are at the disposal of manufacturers faced with problems of tablet production. MANESTY machinery is used in over 60 countries.



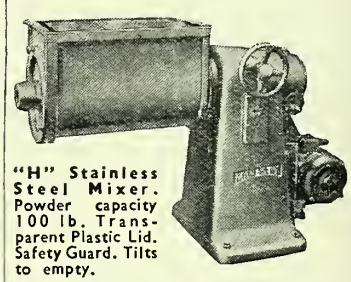
**D3A. Rotary Tablet Machine.** Fully guarded. Constant or variable speed. Output 346 per min. Size up to 1″ diam.



**Rotorgran Oscillating Granulator.** Capacity 150 lb. moist powder per hour; 1,300 lb. dry powder per hour.

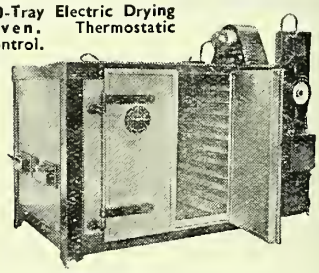


**CP2. Vari-Speed Coating Pan.** Rotation speeds 12-36 r.p.m. Equipped with self-contained hot air blower. 30″ pan.



**"H" Stainless Steel Mixer.** Powder capacity 100 lb. Transparent Plastic Lid. Safety Guard. Tilts to empty.

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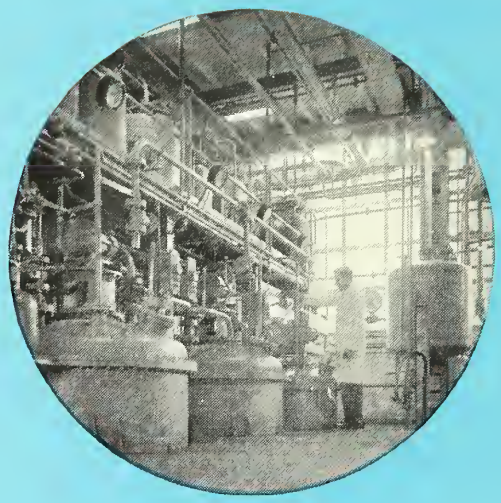
*Price List forwarded on application to :—*

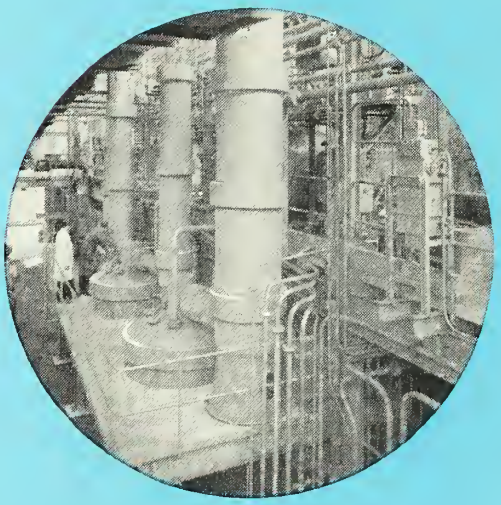
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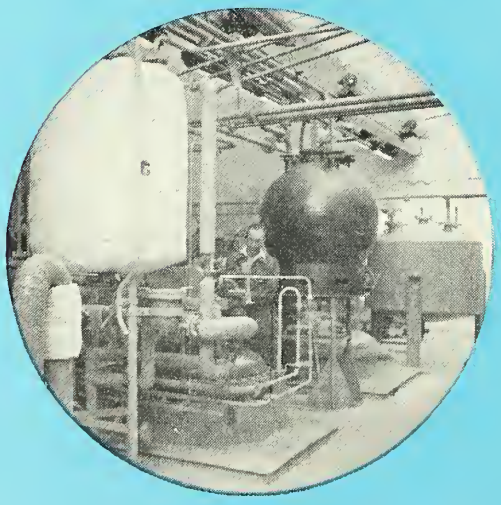
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Phone : Willesden 1146 Telegrams : Kirbilim, Norphone, London Code : Bentleys (2)

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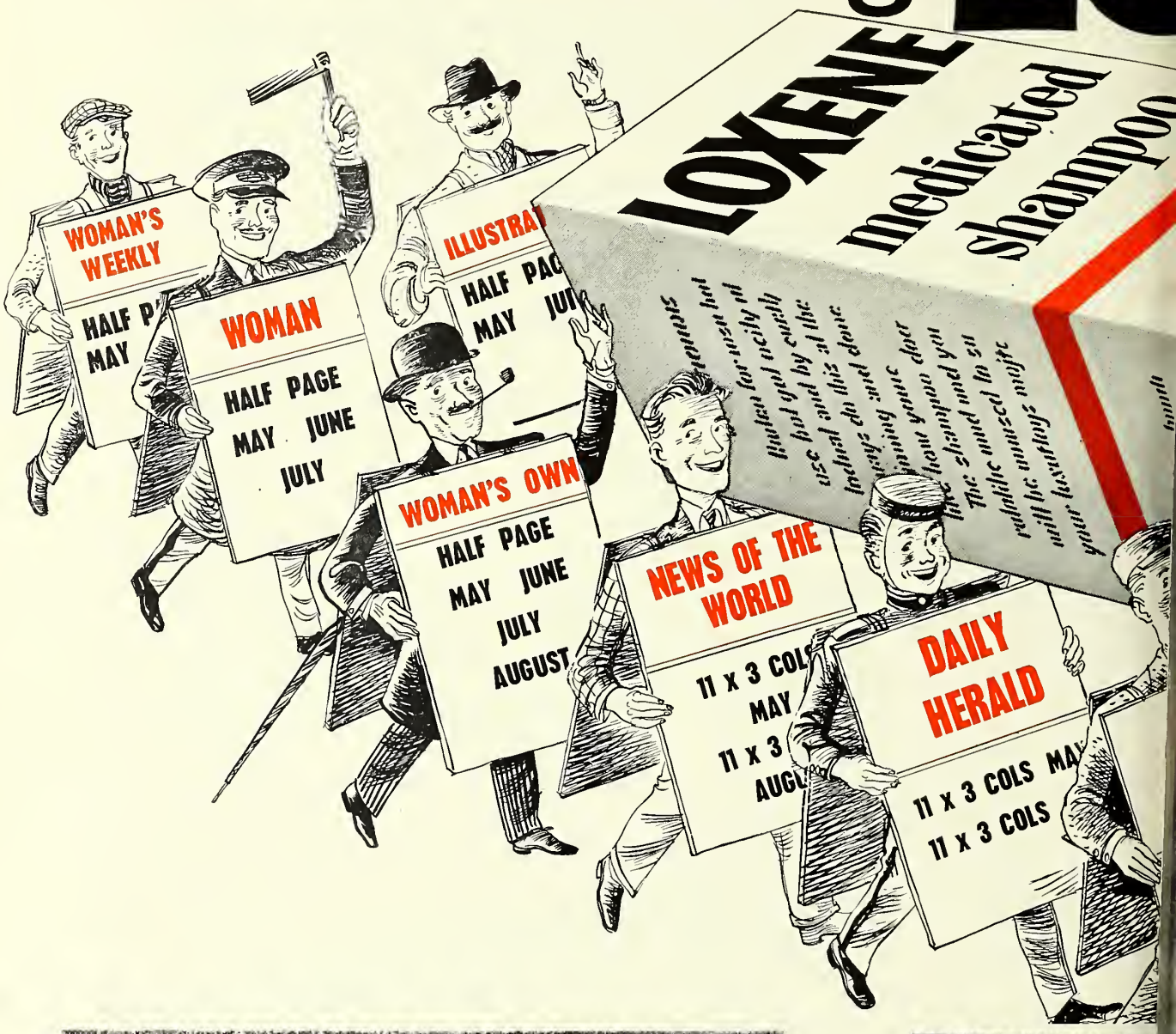
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*LINK YOUR SHOP WITH THIS GIGANTIC SALES EFFORT*

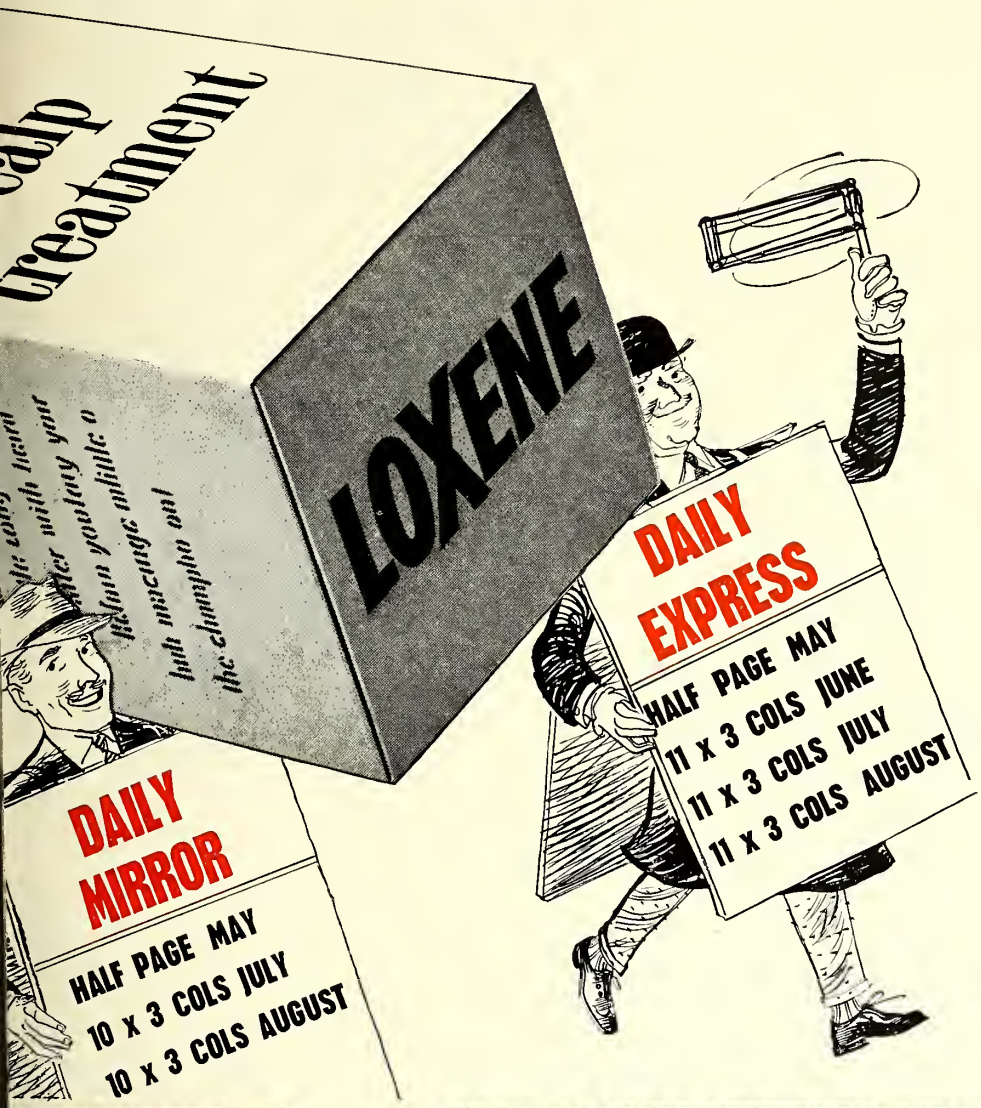



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**Zoflora** *AEROSOL*
*is an addition to the popular range of* **Zoflora** *floral disinfectants*




**RETAIL PRICE 5/6**
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***FREE** demonstration unit with each order for 1 doz. Zoflora Aerosol*

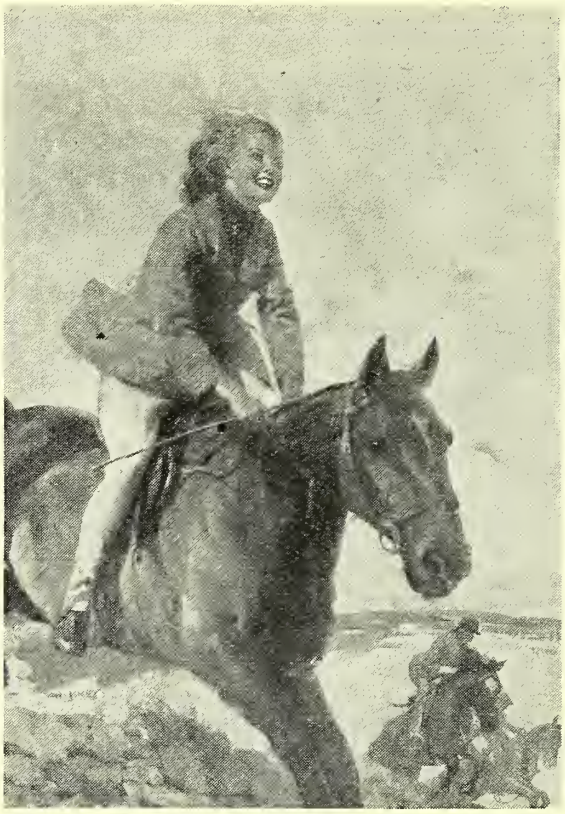
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3 RADIOL Showcard.

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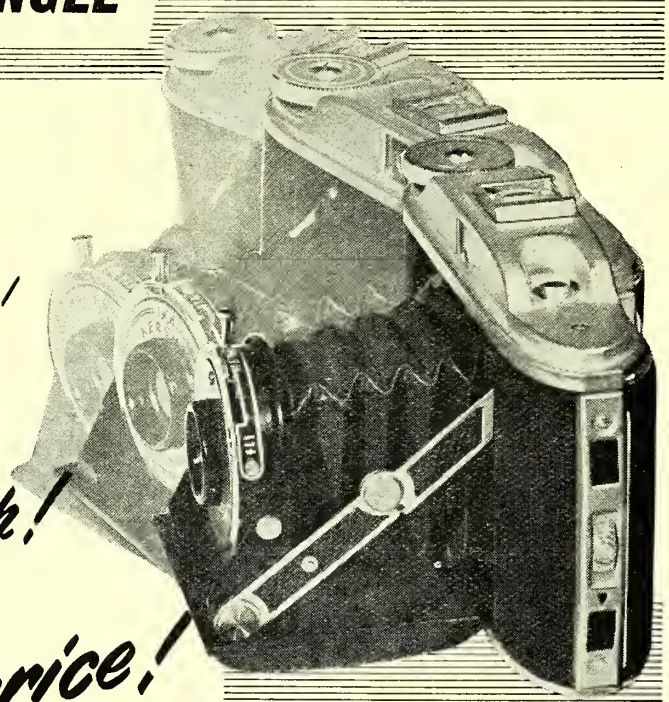
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BOPE

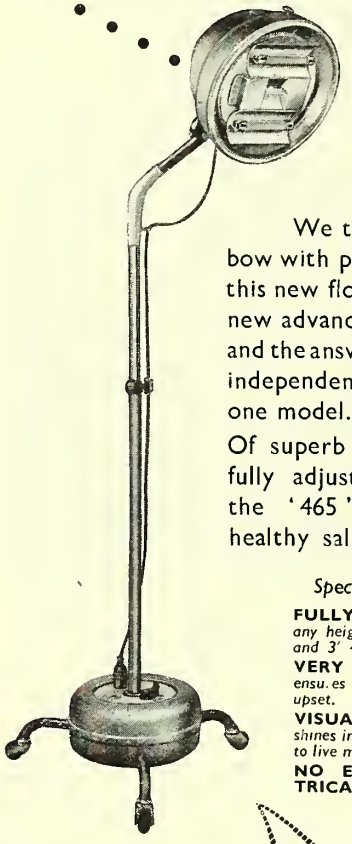
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| 12 doz. 1/- size at 6/5 doz. | 12 doz. 1/11 size at 12/6 doz. |

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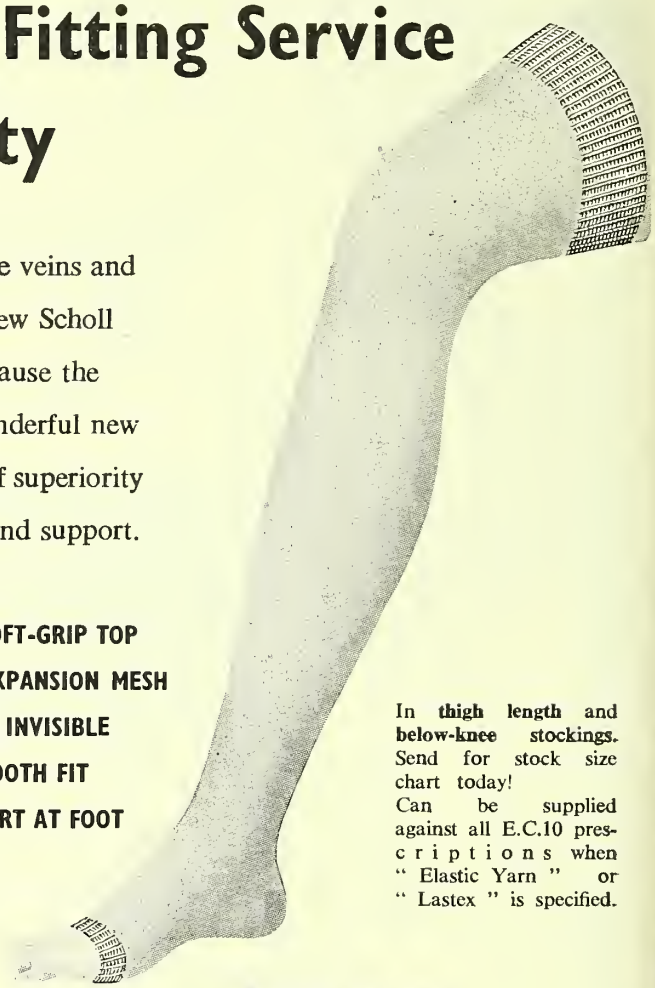
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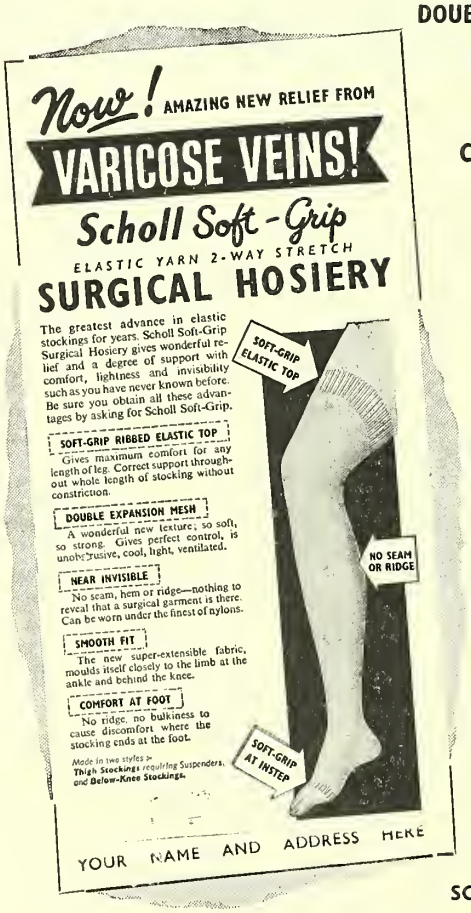
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**NEW SOFT-GRIP TOP**
**DOUBLE-EXPANSION MESH**
**NEAR INVISIBLE**
**SMOOTH FIT**
**COMFORT AT FOOT**

In **thigh length** and **below-knee stockings.** Send for stock size chart today!
Can be supplied against all E.C.10 prescriptions when "Elastic Yarn" or "Lastex" is specified.

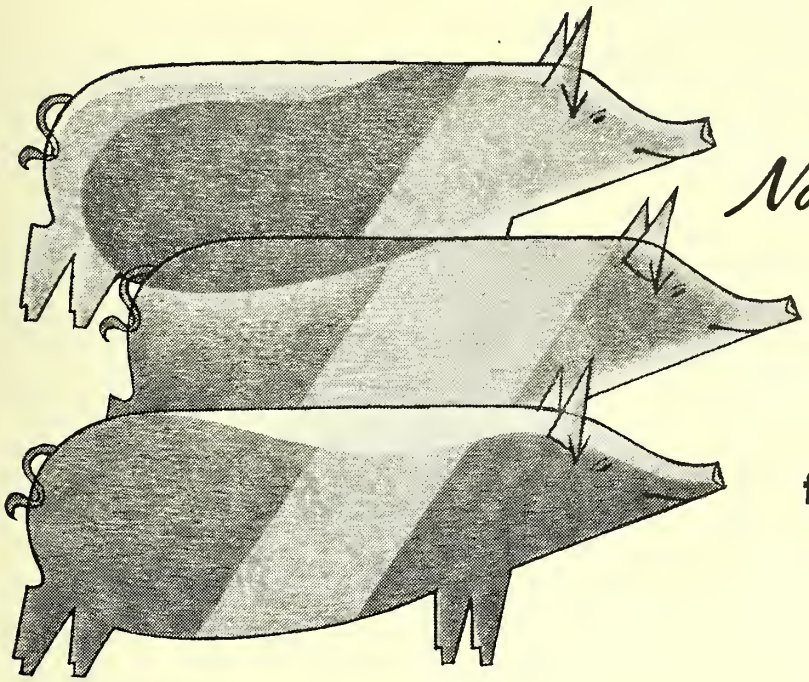



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*Now available*

**the ideal ascarifuge for pigs and poultry**

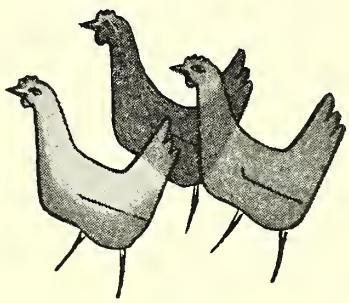
'Pipricide', a preparation of piperazine citrate, fulfils the criteria necessary for the ideal roundworm remedy for pigs and poultry. In the recommended dosage, it

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- **immobilises the worms, thereby facilitating their elimination**
- **can be administered to pigs in wet, dry or swill feeds, or as a drench**
- **can be mixed with mash or added to drinking water for poultry**
- **may be given to pigs or birds of any age or weight**

'Pipricide', which has been the subject of extensive investigations at The Wellcome Research Laboratories and The Wellcome Veterinary Research Station, is issued in containers of 1 oz. and 8 oz.
Order supplies now to meet the certain demand from your farming customers.

**'PIPRICIDE'** BRAND

**WORM POWDER** *(Veterinary)*



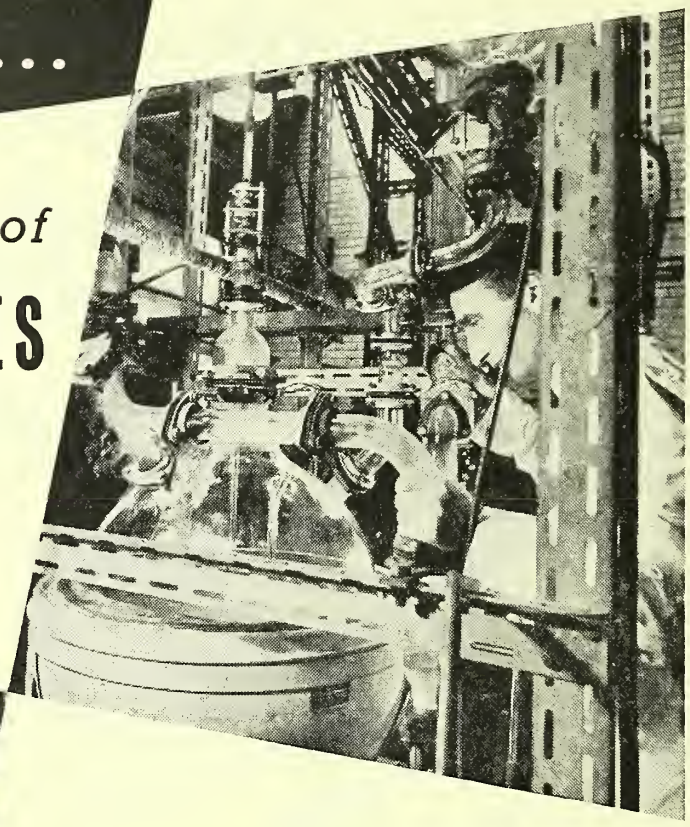
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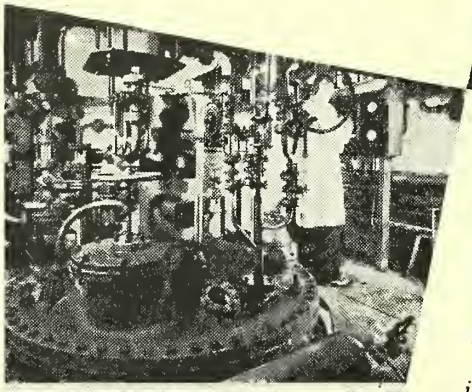
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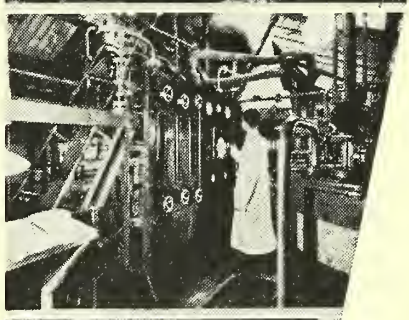
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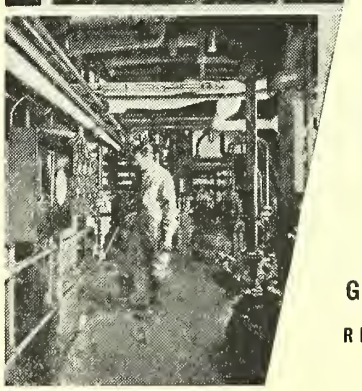
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*Temperatures, reflux ratios, rates of dehydration—all are carefully controlled in the manufacture of GEIGY Barbiturates.*

*Control is exercised to ensure that GEIGY Barbiturates are produced in bulk to a constant degree of purity.*

Geigy

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GEIGY PHARMACEUTICAL COMPANY LTD.

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ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland*

Volume 163 April 23, 1955 No. 3122

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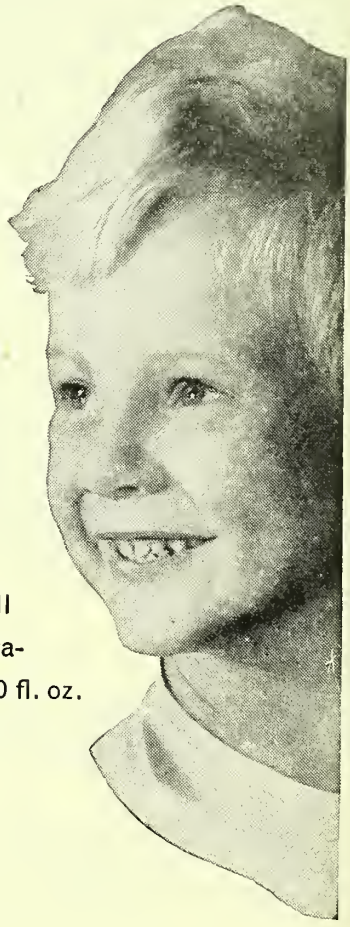


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'Antepar', the original piperazine elixir, issued as a result of investigations at The Wellcome Laboratories of Tropical Medicine, is already established as a most effective and safe treatment for oxyuriasis.

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ASSOCIATED HOUSES: NEW YORK · MONTREAL · SYDNEY CAPE TOWN · BOMBAY · BUENOS AIRES · CAIRO · DUBLIN · AUCKLAND

The CHEMIST AND DRUGGIST

Volume 163 APRIL 23, 1955 No. 3922

# Proprietary Medicines

## ADDITIONS TO JOINT COMMITTEE'S LIST

ADDITIONS to the revised list issued in November 1954 (see *C. & D.*, December 4, 1954, p. 561), of proprietary medicines classified by the Standing Joint Committee on the Classification of Proprietary Medicines, are announced.

The additions are as follows:—

**Category 5** (Non-official preparations not considered as of proved therapeutic value.)

Antibacsyn injection; Antibacsyn oral; British bee venom for desensitisation; Cholinvel; hesperidin tablets V.L.; inositol tablets V.L.; Pabavel tablets; pantothenic acid tablets V.L.; Secretin-Mebiol.

**Category 6** (Preparations which are a combination of categories 4 and 5.)

Bispasod; Cremalgin; Digesto laxative tablets (Sumner); Hepa-Desicol; Heparglandol B injection; Legat's linctus Cocerlanus; Lextron Pulvules; Lextron ferrous Pulvules; Linctus Cocerlanus with codeine (Legat); Moldomia drops; Moldomia elixir; Moldomia tablets; Okasa gold; Okasa silver; sodium oleate compound tablets (Gale Baiss); Tetraglandin Pulverette; Vitaphos tonic.

**Category 1** (New drugs of proved value not yet standard.)

Antrenyl tablets; calcium disodium versenate injection; Carbo Resin; Convenil-Hommel; Diparcol injection; Elorine chloride Pulvules; Imferon injection; Lergine tablets; liver extract, crude, Lilly, injection; Merbentyl tablets; Monodral tablets; parathyroid hormone (Pabyrn); Wyovin tablets.

The following preparations have been transferred from category 6 to categories 2, 3 or 4:— Ung. Renaglandin; Ung. Renaglandin anæsthetic; Vi-Siblin.

## Budget Proposals

### INCOME-TAX RELIEFS

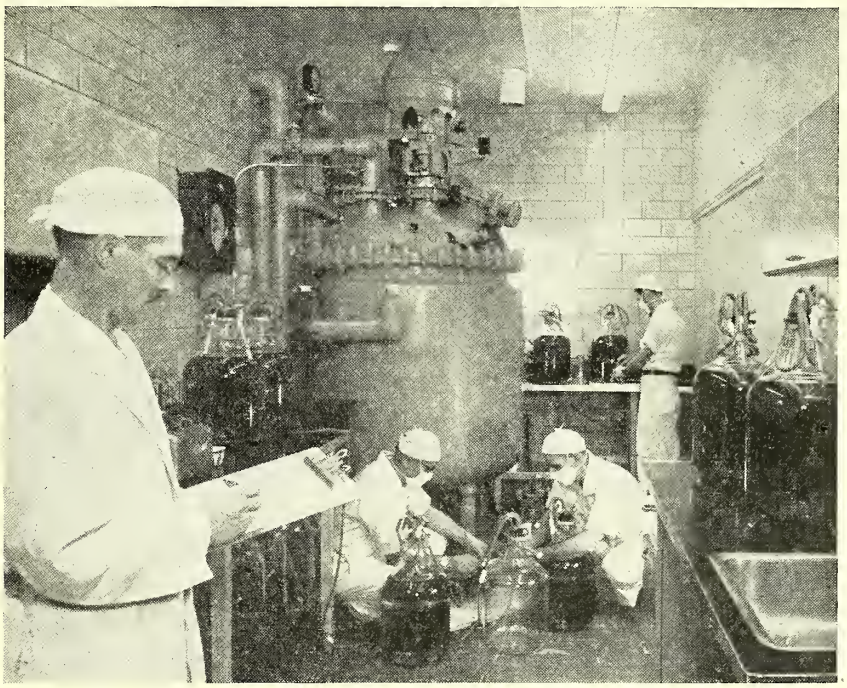
INTRODUCING his Budget proposals in Parliament on April 19, the Chancellor of the Exchequer announced a reduction of sixpence in the standard rate of income tax and of threepence in each of the reduced rates. The taxable income charged at the lowest reduced rate is reduced from £100 to £60. Personal allowances are also increased. For P.A.Y.E. purposes the tax changes come into force after July 5.

## Statutory Committee

### "NO MISCONDUCT" DECISION

THE Statutory Committee of the Pharmaceutical Society, at an inquiry in London on August 19, 1954, concluded that a member of the Society, who was the registered superintendent and managing director of a company of chemists, was not guilty of the misconduct with which he was charged. The complaint alleged that the signs used on the company's premises were blatant, undignified and not in keeping with the dignity of pharmaceutical practice, and were inconsistent with the Statement Upon Matters of Professional Conduct. Giving the Committee's decision, the chairman stated that in the opinion of the committee the appearance of five of the company's shop-fronts at the time when the inquiry was set on foot was so much out of keeping with the present views of the pharmaceutical profession on what was suitable and in accordance with the dignity of the profession, that the setting up of such shop-fronts would almost certainly, if the committee had to consider the matter today, be regarded as misconduct. But the Committee, having regard to the differences of view prevailing within the profession at the time when the wording was put up (about five years ago) were of the opinion that at that time there was no misconduct. In view of the substantial expense that would be involved, failure to remove the offending signs before the inquiry was instituted could not be described as misconduct. The Committee gave no ruling on the present condition of the premises. The pharmacist had made expensive alterations in the hope that no further objections would be raised. It was open to the Society to take up the matter if they considered it necessary.

It was announced at the meeting of the Statutory Committee on April 19 that the name of George Findlay Thompson, which the Committee had directed at its meeting on April 6, should be removed from the Register of Pharmaceutical Chemists (see *C. & D.*, April 16, p. 414) was not in fact on the register at that time, owing to non-payment of the retention fee. The direction was therefore varied, that the name be not restored to the register until the Committee otherwise directs.



**POLIOMYELITIS VACCINE IN PRODUCTION IN UNITED STATES: Poliomyelitis vaccine is seen being drawn from a pooling tank into large storage bottles at the Rochester, Michigan, laboratories of Parke, Davis & Co. Three strains of virus are grown separately and subsequently pooled. At the time of going to press the question of the importation of poliomyelitis vaccines was still under consideration by the Ministry of Health.**

## Chemists Federation

MEETING OF COUNCIL

A MEETING of the Chemists Federation council was held in London on April 6. Meetings of committees were held the previous day. Four applications for manufacturer membership were considered and the following accepted: Jones-Clarke, Ltd. (Product, Extra-Vite); Howard Lloyd & Co., Ltd. (Lloyd's adrenaline cream); Rexall Drug Co., Ltd. (Bisma-Rex, Rexall pile relief, mouth wash, cough mixture, cherry bark cough syrup, cinnamon and quinine and children's tonic; Aga-Rex compound; Rexall cream of magnesia tablets, menthol and wintergreen balm, embrocation, corn and wart remover, nasal dropper with ephedrine, eye drops, cold and influenza mixture, children's worm mixture and kidney and bladder pills; rheumatic tablets; Rexall bone and nerve liniment, bronchial and catarrh syrup, eczema ointment, compound chlorophyll tablets, orderlies, bronchial lozenges and catarrh pastilles; Huskoids; Rexall sulphur and yeast tablets, throat pastilles, blood purifier, nerve tonic, L.C.P. athlete's foot ointment, brewer's yeast tablets, Eyelo, fruit flavoured cream of magnesia, Tiny Tot cough mixture and Tiny Tot gripe mixture; Sedets). The following additions to schedules of C.F. agreements were approved: Burroughs Wellcome & Co. (Aroxine); Cuxson, Gerrard & Co., Ltd. (Phenodine, Tussola); Riker Laboratories, Ltd. (reserpine Serpiloid); Westminster Laboratories, Ltd. (Senokot tablets). It was decided that no C.F. display fortnight would be held during 1955 as in previous years but that modified C.F. display periods would be arranged for July and October. A report was received from the outdoor representative of the Federation upon the calls made by him on chemists in Stirlingshire and Fife. It was announced that arrangements are being made for the assistant secretary to address meetings of chemists in Scotland during the week commencing May 16.

## Poliomyelitis Vaccines

STATEMENTS BY OFFICIAL BODIES

FOLLOWING the United States reports on the Salk poliomyelitis vaccine (see *C. & D.*, April 16, p. 409) the Medical Research Council states that a limited amount of anti-poliomyelitis vaccine, similar to that used in America, will be available to the Council in 1955. Sufficient will be allocated for the vaccination of small groups of children in a few centres in the United Kingdom where there are laboratories engaged in studying the poliomyelitis virus. Information on the response to the vaccine will be obtained by means of blood tests and that will be compared with the information obtained from laboratory tests. That information the statement continues is necessary for planning the most effective use of the larger quantities of vaccine that are likely to become available in 1956. It is emphasised that the vaccine is at present available only for those limited purposes and that applications for inoculation cannot be entertained.

A statement issued by Dr. Anthony M. Payne (division of communicable diseases, World Health Organisation) on April 13 said that according to the Press reports on the Salk poliomyelitis vaccine the advantage to the vaccinated over the non-vaccinated children appeared to be about 3½ to 1. But poliomyelitis was not yet beaten. It was not known how long the effect of the vaccine lasted, nor was it known if it would work in infants, or if it would be effective under other conditions than those in which it was used, or how best it could be used. There were many intricate problems in the manufacture of the vaccine. Other vaccines prepared by other methods were being investigated. It was not known which would eventually prove the best but there were sound reasons to believe that poliomyelitis would be beaten within a few years.

## Oxygen Equipment

OLDHAM CRITICISM OF HIRE CHARGES

BECAUSE the hire of oxygen equipment to a patient from May 1953 to March 31, 1955, had cost £52 7s. it was resolved at a recent meeting of Oldham Executive Council to protest against the present scale of hire charges, especially in cases of long-term oxygen therapy and to urge the Minister of Health to secure more equitable rates and that the Executive Councils' Association should be asked to give its support to the Council's action. The Council had previously asked the Joint Pricing Committee what steps were being taken or could be taken to secure more equitable charges during prolonged periods of hire and whether or not in such cases consideration was given to the possibility of excessive prescribing. Subsequently the clerk of the Joint Pricing Committee had written agreeing that the position was most unsatisfactory. He believed that the Executive Councils' Association had also taken up the question with the Ministry of Health, but beyond conferences with various interests concerned, nothing tangible had resulted. He was unable to help the Council on the question of referring certain cases of the prescribing of oxygen to the medical service committee as possible cases of excessive prescribing and considered that the doctors concerned could generally justify the prescribing of oxygen and consequently of the apparatus necessary for its administration.

## Public Pharmacists' Guild

FORTHCOMING ANNUAL MEETING

THE annual meeting of the Guild of Public Pharmacists is being held in Manchester on May 21. Motions for the agenda and nominations for council must reach the general secretary, 1 Sunte Avenue, Haywards Heath, Sussex, not later than April 23. The meeting is being followed by an informal dinner and conversazione. Tickets, price 12s. 6d. each, should be obtained from Mr. G. Raine, Withington Hospital, Manchester, 20, by May 12.

# *IRISH NEWS*

## Associates' Section

MEETING OF COMMITTEE

AT the April meeting of the committee of the Associates' Section of the Ulster Chemists Association, Mr. G. E. McIlhagger (chairman) presiding, the following applications for associateship were approved:— *Apprentices,* Miss M. A. McCullough, Messrs. D. Giles, T. Gray, F. McNally. A report from the social committee was read and further discussion on the proposed bus runs (see *C. & D.*, March 26, p. 332) took place. Letters pertaining to the runs which had been received from Messrs. B. J. Deeny, Downpatrick, and E. G. Mackle, Newry, were considered, and it was agreed to try to organise a run to Newcastle, via Downpatrick, on June 8. The social committee also suggested that the treasure hunt should take place in July. A notice of motion in the name of Mr. W. E. Cooper: "That £10 should be granted to a member of the Associates' Section to assist him or her to attend the 1955 meeting of the British Pharmaceutical Conference" was accepted. It was further agreed that all fully-paid up associates should be eligible to send in their names for that grant by mid-June for selection by ballot.

## Optical Congress

INTERNATIONAL EVENT IN DUBLIN

PHARMACIST-opticians are taking a prominent part in organising an International Optical Congress that is being held in Dublin, July 11-15. The occasion will also mark the fiftieth anniversary of the Irish Association of Ophthalmic Opticians. Some 500 delegates from many countries including Great Britain, Canada and the United States are expected to attend. Besides the scientific sessions, a social programme has been arranged and chemist-opticians who wish to attend the various functions may obtain tickets from Mr. L. O'Pelly, 26 Fassaugh Avenue, Cabra, Dublin.

## Irish Chemists' Debate

NEW INTEREST FOR THE PHARMACIST

AT a meeting of the Irish Chemists' Representative Organisation held in Dublin recently, PROFESSOR F. KANE read a paper entitled "A New Interest for the Pharmacist — Physiology and Biochemistry." Mr. M. Costello (president, Pharmaceutical Society of Ireland) was in the chair. Those who took part in the discussion that followed included Messrs. D. Kennelly and James A. O'Rourke (members of Council, Pharmaceutical Society of Ireland).

## Ulster Chemists

TIME OFF FOR ROTA DUTY

IT is pointed out that the provision for holidays in respect of rota duties made under the revised wage scales reported at the April meeting of the Executive Committee of the Ulster Chemists' Association (see *C. & D.*, April 16, p. 410) does not become effective immediately, but was agreed subject to provisions being made under the proposed new Shops Legislation.

## *OVERSEAS NEWS*

PAKISTAN

**Purchase of Monkeys**

REPRESENTATIVES of an American drug manufacturer recently visited Karachi to arrange for the export of 1,000 monkeys a month for several years.

NETHERLANDS

**Blood Plasma Donation**

THE Netherlands Red Cross is putting at the disposal of the League of Red Cross Societies 6,000 bottles of dried blood plasma for use in any part of the world. The gift represents the blood donations of 10,000 volunteers.

SOUTH AMERICA

**Yellow Fever Threat**

OWING to the presence of infested areas in various parts of South America and the fact that Mexico has not joined the campaign to eradicate the *Aedes aegypti* mosquito, the threat of yellow fever to the southern parts of the United States is real. The northward movement of yellow fever carried by animals and known as jungle yellow fever has greatly accentuated the danger. It was stressed recently by the director of the Pan-American Sanitary Bureau of the World Health Organisation that international action was necessary to eradicate the menace.



**GLAXO IN INDIA : The new Madras offices of Glaxo Laboratories, Ltd. The photograph was taken by Mr. E. Ramalingam, a member of the sales department staff.**

## *NEWS IN BRIEF*

AN examination to qualify for admission to the Abdominal Hernia Appliance Fitters' Register of the Institute of British Surgical Technicians is being held at the Technical College, Bolton, Lancs, at 6.30 p.m. on May 5; application forms from the Institute at 6 Holborn Viaduct, London, E.C.1.

SURREY Pharmaceutical Committee recently recommended that no action should be taken against a pharmacist who had dispensed cotton wool that was less absorbent than it should have been or against another pharmacist who had dispensed absorbent gauze shorter than the length prescribed. The manufacturers had accepted responsibility.

# TOPICAL REFLECTIONS

By Xrayser

## *Sex Hormones*

I have read carefully the Council's statement on the sale by retail of sex-hormone preparations, and I share the misgivings expressed in your leader (p. 433). The position is admirably summed-up there in the sentence which reads "there is no half-way house between control and non-control." It is implicit in the Council's statement that the British Medical Association is concerned about the supply of these substances, and it must be assumed that the medical body had good reason for approaching the Society to discuss possible control. The statement also suggests that the Council of the Pharmaceutical Society has, after investigation, found that not all pharmacists have been exercising a proper professional care in the matter of supply, otherwise there would have been no need for the statement, which I note, refers specifically to the use of the drugs in the suppression of lactation and the treatment of menopausal conditions. Bearing these points in mind, I cannot understand the Council's reluctance to advise the production of a prescription. Nor can I foresee a situation in which a doctor would ask his patient to go to her chemist and purchase a supply of one of the oestrogen compounds when he could write a prescription specifying the particular preparation, the strength, the quantity and the directions. Either control is necessary, or it is not. The statement suggests that it is, and then "pulls its punches." With all respect to the Council's qualified permission to sell sex hormones, I shall continue to demand proof of medical advice, however badly written.

## *Pharmaceutical Machinery*

Older pharmacists will recall the days of their apprenticeship, during which they themselves were the mixers, shakers, stirrers and bottle-washers in their particular pharmacy. The illustrated supplement in last week's issue shows the progress made in recent years, and makes the point that there is a field for the smaller-scale type of apparatus in the dispensary. There is no doubt that labour-saving devices can be usefully employed in the pharmacy, though the opportunities for using such aids were greater many years ago, when human muscle was the principal agent employed. Apart from the energy expended on ointment-making or on emulsions, there was the time-consuming instruction in the B.P. or B.P.C. to "stir until cold." One of the mixers described overcomes that tedious operation. But in these days of greater reliance on the products of the laboratory, fewer galenicals are being used, and many pharmacies have come to depend more and more on the manufacturing house. It might require considerable mental readjustment to contemplate manufacture on the small-scale of materials which, at one time, were used in considerable quantity, though there is satisfaction to be gained from making as much as possible oneself.

## *Propaganda*

Propaganda, as understood in medical and pharmaceutical circles, needs no explanation, and in the political field we are to be subjected to an increasing volume in the coming weeks. But for a combination of both, it is necessary to dip into the nineteenth century family herbals, which contrived to mirror the social conditions of the period in addition to conveying information on plants and their uses. Brooke, in describing calumba root, recommends Dr. Torren's Pills, which "have never been known to fail." "Many a man is now suffering from want of food in his childhood, which was caused by the ever-detested scoundrels who imposed a corn-law, and other plundering taxes which prevented his parents giving their poor children enough of food; and thousands of gluttons suffer for years after they have returned to a more regular way of living; but the preparation of calumba root in those Herbal pills, is the most certain, safe and infallible remedy for these disorders that has ever been discovered in the whole practice of medicine."

# N.P.U. AREA MEETING AT LLANDUDNO

## Welsh and Border Counties Chemists Confer

THE first special area meeting of Welsh and border counties members of the National Pharmaceutical Union to be held in North Wales since the war was held in Llandudno on April 17, Mr. Lewis H. Teare (chairman, N.P.U.) presiding.

In the morning, members attended a special service for pharmacists at St. John's Methodist Church, Llandudno. On the previous evening a reception and an informal dinner and dance were held at which the members of the Anglesey, North Caernarvonshire and Colwyn Bay Branch of the N.P.U. were the hosts.

Welcoming delegates to the area meeting, MR. GWILYM H. HUGHES (N.P.U. Executive member for North Wales and Shropshire) suggested that the attendance could have been better but he appreciated the special efforts that members from South Wales had made to attend. With him on the platform were Messrs. G. T. M. David (N.P.U. Executive member for South Wales), P. D. J. Spaanderman (president, Chemists Federation), J. Wright (assistant secretary, N.P.U.), R. H. Kemp (assistant secretary, N.P.U. and secretary, Chemists Federation), and Talvan Rees (a member of the N.P.U. Executive).

### General N.P.U. Matters

Under the section of the agenda dealing with general N.P.U. matters MR. G. T. M. DAVID said that the Chemists' Defence Association had continued to save pharmacists from their own and their assistants' follies. The increasing number of frivolous claims brought under free legal aid had made the work of the office more difficult. The number of subscribers to the Chemists' Provident Society was too small at 3,000. Again, the Chemists' Mutual Insurance Co. did not receive the support that it should. Similarly only 3,000 members used the clearing house, and yet it could save the subscription several times over in a year.

If the Executive had not been able to get Reckitt & Colman, Ltd., to reverse their policy on distribution of Dettol it had stopped others from following that company's lead. It was a short-sighted policy for members not to co-operate with the N.P.U. Chemists were the obvious source of supply for all medicinal preparations. They must fight for the recognition of that. On the question of price maintenance, Mr. David said that there was a danger that the Proprietary Articles Trade Association might become so emasculated that it might cease to be a bulwark against cut-prices. Pharmacists' strength lay in their unity. They must combine against common perils threatening them. The key to the manpower problem was apprenticeship. Eighty-five per cent. of all apprentices went to the multiples and once there, they stayed there. It would become increasingly difficult to get staff and to sell businesses. Mr. David quoted an extract from an article in THE CHEMIST AND DRUGGIST, April 9, p. 397. It stated that the newly qualified pharmacist tended to view permanent employment in private retail pharmacy as a last resort. He agreed with the author of that article. There was a problem in high wages but by co-operation it could be solved. An N.P.U. subcommittee was looking into the matter of businesses being taken over by the multiples and the co-operatives. He referred to the work done in that direction by the Business Purchase and Guarantee Fund. A flow of suitable men into the ranks of the private chemists must be ensured.

### Purchase-tax Refunds

Two resolutions were considered under this section of the agenda. The first called for the organising of a national appeal from individual tradesmen to constituency Members of Parliament to secure Government action on a refund to traders when purchase tax was removed or reduced. The second demanded more positive Executive action against firms that increased the number of points of distribution for the proprietary lines, the sale of which was previously restricted to chemists, and against firms that introduced new lines and did not place them on the C.F. list.

Proposing the first resolution on behalf of the Anglesey, North Caernarvonshire and Colwyn Bay Branch, MR. J. P. JOYCE said that when the tax had been reduced in 1953 pharmacists had been "robbed" of £200 per shop. The average stock was £4,000 per shop and the tax was approximately £1,000 and a quarter of that, which represented the reduction in 1953, was roughly £200.

MR. KEMP said that for a number of years the N.P.U. had collaborated with the National Chamber of Trade on that problem. There had been numerous consultations with the Board of Trade. The justice of the claim had never been questioned; the difficulty had been in devising a method of meeting it. The N.P.U., in collaboration with the National Chamber of Trade, was doing its utmost to find a solution. He, himself, thought that a figure of £150 per £1,000 was more accurate for the amount of purchase tax tied up in stock and that would have represented a loss in 1953 of £35 per £1,000 of stock. Where fancy goods and cosmetics formed a large proportion of the stock the figure of 25 per cent. tied up in purchase tax might be fair.

When he proposed the second motion on behalf of Swansea Branch, MR. DAVIES said that the N.P.U. should take action against members who cashed in on the situation caused by N.P.U. action when proprietary lines were no longer restricted to chemists. He suggested sanctions against those members. MR. KEMP pointed out that the resolution was aimed at action against firms, not against chemists. By and large, members had supported the N.P.U. in its action in the matter of Dettol (that it should not be displayed, personally recommended or bought direct from the company). Did the proposer contemplate complete boycott? The Executive had taken positive action when a firm had tried to market, through chemists in certain towns, a new analgesic that was not on the C.F. list. The firm had sought an interview with the C.F. and it had been made clear to the company what the C.F. wanted. The application of sanctions against members was a different and difficult problem. It had been considered by the Executive but no action was taken. Was further consideration of that wanted? MR. DAVIES said that he did not wish to boycott any products. He would not press the issue of sanctions against members.

MR. HUGHES PARRY asked what should be done when a wholesaler offered 5 per cent. discount on Dettol. MR. KEMP replied that chemists should buy on the best terms that they could get, but should not display the product, should not recommend it and should not sell it unless asked for it.

### Current N.H.S. Matters

In a statement on current N.H.S. matters, MR. J. WRIGHT said that a "stratified random sample" of nearly 1,100 contractors had been chosen for the inquiry into dispensing costs. Such a sample had been necessary so that the resulting figures would truly represent England and Wales. Just over 56 per cent. had agreed to co-operate. But up to April 7 only 525 usable forms had been returned. The Government Actuary's Department was examining the matter to see if that number would provide information that could be used confidently. If the spread reasonably covered all of England and Wales it was probable that they would be sufficient. A working party composed of representatives of the Ministry and the Central N.H.S. Committee that had visited a small number of sample pharmacies had found that the information supplied on space usage was reliable. In addition, the chemists' accountants had agreed with the Board of Trade on the basis of apportionment of overheads. If, however, a deadlock resulted, the difficulty was that neither side could take the dispute to arbitration unless the other side agreed, and after his experience with the doctors the Minister of Health would be reluctant to agree. The response to the container allowance inquiry in June 1954 had been extremely good. 90 per cent. of the questionnaire forms had been completed. In November 1954 the second leg had been completed and although the response was appreciably smaller, it was sufficient to satisfy the actuaries. The Ministry was anxious to complete the work as soon as possible, but as they had maintained that remuneration must be looked at as a whole, an early revision of the allowance could not be expected. The Central N.H.S. Committee maintained that the container allowance was not a part of the remuneration. A revised questionnaire form was awaited for the inquiry into payment for elastic hosiery. The first

form submitted by the Ministry had been rejected by the Central Committee as too complicated. The inquiry into the farthing allowance per form for the shilling levy charges was being completed. The Ministry had already proposed that the farthing should be cut. The Central Committee had told the Ministry that they would consider the proposed reduction as a separate issue if the Ministry agreed to treat the container allowance claim separately. No reply had yet been received. Mr. Wright reminded members that many were not claiming when they supplied proprietary medicines from packs smaller than the basic one. A new list of basic packs had now been received. On such evidence as was available, many of the proposals appeared to be reasonable. The Ministry had sought information from the manufacturers about the buying of packs and the replies had supported the Ministry's proposals. But the Central Committee would try to secure the elimination of some items. The Ministry was forcing the manufacturers of proprietaries to reduce prices and therefore the normal rule for operating price changes was no longer working equitably. The Ministry had now agreed that price changes for proprietaries would come into operation in the bureaux a month after they took place. It gave an additional month to clear stocks. It also meant a month less when prices rose. Prices would not always go on falling; therefore the new scheme would be re-examined after a year.

**Resolutions**

Under this heading seven resolutions were tabled. The first and second asked the Central Committee to press respectively for an immediate percentage increase in the container allowance and for improved terms for the supply of oxygen. Both resolutions were carried. Proposing the first motion on behalf of the Anglesey, North Caernarvonshire and Colwyn Bay Branch, MR. KING said that figures that he had compiled showed that containers cost 21 per cent. more now than in 1949 when the cut to a penny-farthing had taken place. Yet the container allowance remained the same and looked like remaining the same for a long time to come. Chemists did not want a return to the deposit system. Discussion on the container allowance had continued with the Ministry for five and a half years. That was a long time. How many other unions would stand for it ?

MR. WRIGHT said that the Central Committee had been faced with a cut to a penny-farthing container-allowance or a return to the deposit system. It had conducted a plebiscite which showed that the majority of chemists preferred the cut. Although a case had been proved for an increased allowance, the Ministry insisted on treating remuneration as a whole.

MR. H. NEVILLE proposed, on behalf of the same Branch, the resolution on terms for the supply of oxygen. The shilling fee per cylinder was unreal. No pharmacist had ever made a profit out of oxygen. Speed in supply was the main value of oxygen but the present system acted against the pharmacist who stocked it. Because of the shortage of cylinders the only method was to use one's own. But who paid for the testing and repainting of them ?

MR. WRIGHT said that the refusal of the Ministry to pay delivery charges was quite wrong. There ought to be a proper system for payment for damage. The Central Committee expected proposals from the Ministry about oxygen within a few weeks. He did not agree that no pharmacist had ever made a profit out of oxygen. On long-term cases he could do so. The Central Committee would do its utmost to get a delivery charge.

The next resolution demanded the abolition of the testing scheme or alternatively that it should be taken over by the Pharmaceutical Society. It was the only one to be rejected by the meeting. MR. WRIGHT pointed out that the Ministry would undoubtedly insist on the scheme being retained. The Society might be more severe than a pharmaceutical service committee.

**Full Pricing**

A resolution pledging the Conference's support for the Central N.H.S. Committee's pressure for a return to full pricing was carried.

A resolution urging the Central Committee to continue to press for a satisfactory solution to the "incomplete" prescription problem and stating that a pharmacist's endorsement should be all that was necessary except when the doctor's initials were necessary to comply with legal requirements was carried.

The next resolution urged the Executive to press manufacturers to standardise packs of tablets and to pack and label products for supply on N.H.S. prescription so that the original labels could be easily removed by the pharmacist. It was carried.

The final resolution in this section drew the attention of the Central N.H.S. Committee to the "great and increasing prevalence in rural areas of non-urgent prescriptions after normal closing hours," and asked the Committee to acquaint the Minister of the practice which entailed long and exacting hours for the pharmacist affected, with no extra remuneration. It was carried.

MR. GWYN JONES, proposing the motion on behalf of the Merionethshire Branch, said that the rota scheme was unworkable in rural areas because surgeries were often held late in the evening and it was impossible to refuse to dispense a prescription that had been brought from five, seven or ten miles away. Some surgeries were held on the chemist's half holiday. The health of the pharmacist was affected by insufficient recreation.

MR. WRIGHT suggested that in some areas doctors had been persuaded to hold their surgeries earlier. The danger that the Central Committee must face was that the resolution stated that there were lots of prescriptions after 6 p.m. The question then arose: was that the right closing hour ?

THE CHAIRMAN thought that the matter could be raised at Executive Council level.

Reviewing prescription-pricing problems MR. GWILYM HUGHES said that he was proud of the progress that had been made at the pricing bureau in Cardiff. The rate there was, according to the figures available, above average. The accuracy was also very good, 37½ per cent. being within 0·1 per cent. of the total value and 100 per cent. within a penny-farthing per £.

**C.F. Matters**

Speaking on C.F. matters, MR. SPAANDERMAN said that the general picture was a good deal rosier now than it was ten months ago. That was due to the shock tactics employed by the C.F. council. It was regrettable, however, that members had to be shocked into realising on which side their bread was buttered. An additional representative had now been engaged and would be starting work in the north of England. Chemists did not realise the power that they had in their own hands. At the area meeting at Southport in the autumn of 1954 members had been advised not to push and display Savlon hand-cream until it had been put on the C.F. list. Within a few days Imperial Chemical (Pharmaceuticals), Ltd., had had hundreds of letters and postcards to that effect. Today that company's products were in the C.F. list. That demonstrated the chemists' power if they cared to use it. Some chemists said that they could not afford to lose window bonuses. They could not afford to give window displays argued Mr. Spaanderman. Such displays were a cheap form of advertisement for medicines sold by other traders. Chemists could not afford to do that.

A resolution that local N.P.U. branches should set up local action committees to co-operate with the C.F. council and to encourage greater support for the C.F. movement by retail chemists was welcomed by MR. KEMP who said that he hoped that it would be passed unanimously. It was so passed.

Proposing another resolution asking the C.F. council to adopt a more progressive policy to persuade manufacturers to place their products on the C.F. list, MR. JENKINS, on behalf of Swansea Branch, complimented the council on its success with Imperial Chemical (Pharmaceuticals), Ltd.

MR. S. MORGAN, Welshpool, referred to the large number of rubefacients in the C.F. list. Was there no method of elimination ? MR. KEMP replied that chemists could stock and display C.F. goods of their own choice, but should not stock and display non-C.F. products. By accepting a number of the lesser known adrenaline creams the council had just had the opportunity of accepting the "father of them all."

**Other Business**

MR. KING asked for clarification on the subject of diamorphine supplies. MR. WRIGHT said that so long as supplies were available they should be dispensed.

MR. TALVAN REES proposed a vote of thanks to the local organisers of the conference: Messrs. Neville and Edwards.

# PROPRIETARY ARTICLES TRADE ASSOCIATION

## Sir Hugh Linstead, guest at luncheon, urges support for price maintenance

AT a luncheon that preceded the quarterly council meeting of the Proprietary Articles Trade Association in London on April 14, Sir Hugh Linstead, O.B.E., M.P. (a secretary of the Pharmaceutical Society) was the guest of the president.

**Genius of Glyn-Jones**

Sir Hugh said that it was the P.A.T.A. under the genius of Glyn-Jones that rescued the ordinary member of the Pharmaceutical Society from the most miserable economic circumstances in the 1900's, and on those grounds alone anything that organised pharmacy could do to support the P.A.T.A. it ought to do.

He was sure that what the council was interested in was what the Monopolies Commission report on "collective boycott" and "exclusive dealing," would say. On that report a great deal would hang in regard to the future of the P.A.T.A. and of the Chemists Federation. It would be a milestone in the history of price maintenance. What was going to be almost more important than the content of the report was the action that the President of the Board of Trade would take on it. Mr. Thorneycroft's remarks in the last debate in the House of Commons were on the whole encouraging. Sir Hugh's guess was that whatever was recommended about "collective boycott" by the Monopolies Commission was likely to be the law of the land six months or a year after the report appeared. He assured the council that great efforts would be made to make reasonable price maintenance a continuing feature of trade in Britain for the sake of the independent private retailer.

At the meeting of council that followed the luncheon, the president (Mr. D. A. Rees) was in the chair. The council received with regret Mr. C. S. Challinor's resignation, because of continued illness, as a member of the retail section of the council. Because of the resignation of Aspro, Ltd., as members of the P.A.T.A., the council accepted with regret the resignation of Mr. J. S. Walmsley, who had represented the company on the manufacturers' section of the council for the past four years. Mr. H. R. Brown, M.P.S., Skipton, Yorks, was co-opted to fill the vacancy on the retail section of the council caused by Mr. Challinor's resignation.

The secretary reported that prior to the parliamentary debate on monopolies and restrictive practices that had taken place on February 24 (see *C. & D.*, March 5, p. 251) Members of Parliament had received from the Fair Prices Defence Committee a memorandum on the collective system of price maintenance, and that letters from a number of Members, expressing their thanks for the reminder and their interest in the subject, had been received.

The council endorsed the decision of the executive committee that an invitation to visit Britain should be extended to Dr. John W. Dargavel (chairman of the United States Bureau of Education on Fair Trade and secretary of the National Association of Retail Druggists).

The council expressed its satisfaction at the general position disclosed in the annual report and financial statement to be submitted to the annual meeting later in the day.

The council formally adopted the amended constitution and rules provisionally approved by it at the January meeting. The council decided that the matter of an appropriate form of celebrating the sixtieth anniversary of the foundation of the Association should be considered later.

The council received a report on the existing price-cutting position and the further endeavours made by manufacturers whose products were affected and wholesale distributors to deal with it. The main problem was caused by price-cutting traders in the London area. The secretary's report stated that during the past quarter 430 calls and 490 test purchases had been made by the Association's representatives.

The fifty-ninth annual meeting of the Association was held on April 14, the president (Mr. D. A. Rees) in the chair. Moving the adoption of the annual report, THE PRESIDENT referred to the satisfactory membership position and to the support the council had received in carrying out its work and in endeavouring to safeguard and promote the Association's system. THE TREASURER (Mr. R. G. Dyas) moved the adoption of the financial statement, which he thought the members could regard as entirely satisfactory. The report and financial statement were approved and adopted.

# COMPANY NEWS

**Previous year's figures in parentheses**

CLINICAL PRODUCTS, LTD.—Mr. Cyril Cooper, M.P.S., M.S.M.A., has resigned from the board in order to devote his full time to Visual Efficiency, Ltd. (see also under Business Changes).

A. & F. PEARS, LTD. — Trading profit for 1954 amounts to £45,531 (£48,690). Income from investment in a fellow subsidiary £44,460 (same). Net profit is £32,038 (£31,833) after tax of £51,620 (£52,506). Dividends on preferential shares, less income tax, absorb £27,720 (same). Profit retained in the business, £8,501 (£7,453).

UNILEVER, LTD., and UNILEVER, N.V.—The boards of the respective companies recommend the declarations of final dividends on the ordinary capitals in respect of the year 1954 as follows: *Unilever, Ltd.*, a dividend of 9¾ per cent., making 15¾ per cent. for the year ended December 31, 1954. *Unilever, N.V.*, a dividend of 8¾ per cent., making 14 per cent. for the year. The total dividends are at the same rates as for 1953 but are payable on the ordinary capitals as increased by the one-for-four scrip issues in 1954. The combined trading profit of the groups' operations throughout the world was £70,095,000 (£61,584,000). Taxation is £38,218,000 (£33,821,000) and the consolidated net profit is £31,854,000 (£25,799,000). The consolidated net profit for 1954 includes £2,667,000 (£575,000) of exceptional items and non-recurring profits.

### New Companies

**P.C. = Private Company; R.O. = Registered Office.**

BEAGLEY BROTHERS, LTD. (P.C.).—Capital £100. To carry on the business of printers. Power is also taken to carry on business as retail chemists and druggists. Subscribers: Neill C. Chapman and J. Weavers. Directors are to be appointed by the subscribers.

S. T. MARSHALL, LTD. (P.C.).—Capital £2,500. To carry on the business of retail and wholesale chemists, etc. Directors: Stanley T. Marshall, William Robertson, jun., and George Docherty, M.P.S.

SCIENTIFIC MANAGEMENT, LTD. (P.C.).—Capital £2,000. To carry on the business of chemical consultants, chemists' sundriesmen, chemical engineers, etc. Directors: George M. Dyson and Bertha F. Dyson. R.O.: 58 Baxter Gate, Loughborough.

# BUSINESS CHANGES

BORAX CONSOLIDATED, LTD., are removing to Borax House, Carlisle Place, London, S.W.1 (telephone: Victoria 9070), on April 25.

VISUAL EFFICIENCY, LTD., has removed to Victoria Laboratories, 19 Victoria Villas, Richmond, Surrey (telephone: Richmond 5931).

MR. A. W. HADDON, F.P.S., has acquired the pharmacy at 203 Heather Road, Small Heath, Birmingham, 10, formerly owned by Mr. D. J. Crawford, M.P.S. Mr. Crawford is retaining his business at 90 Hurst Street, Birmingham, 5.

### Appointments

COW & GATE, LTD., Guildford, Surrey, have appointed Mr. A. C. Nash their representative in Wiltshire, Dorset, Somerset, Devonshire and Cornwall.

ORTHO PHARMACEUTICAL LTD., Lane End, High Wycombe, Bucks, have promoted their representative in Warwickshire, Worcestershire and Northamptonshire (Mr. Edward D. H. Turner) to area manager to take charge of the company's southern area. Mr. Donald Wright is to take over Surrey and South-west London; Mr. Edward J. T. Jones, Hampshire, Sussex and Kent and Mr. G. Peter Spencer, Warwickshire, Worcestershire and Northamptonshire.

## INQUESTS

**Undated.**—Recording his verdict at an inquest held at All Saints' Hospital, Chatham, recently, on a sixty-year-old woman who died after taking an overdose of sleeping tablets, the county coroner said that reference had been made in the past regarding the issue of drugs and also to the fact that a number of chemists did not put the date of issue on the boxes. He would again bring to the notice of the authorities the need of some kind of rule in the issue of those drugs.

**No Suicide Intention.**—At an inquest at Ashton-under-Lyne on January 24, the Manchester county coroner returned a verdict of accidental death on Mrs. Ada Smith, widow of a company director. He said that Mrs. Smith had had no intention of committing suicide when she took an overdose of sleeping tablets. A feature of drugs of the barbiturate class was that they were liable to produce mental confusion and lack of memory, the patient forgetting how much of the drug had been taken.

**Air Force Dispenser's Suicide.**—At an inquest at Bridgnorth, Shropshire, on January 26, the deputy coroner recorded a verdict that AC2 Anthony Price Jones, M.P.S., Dundee, had taken his life while the balance of his mind was disturbed. Jones was found dead in the dispensary at Bridgnorth Royal Air Force station on January 24, a doctor from the Royal Salop Infirmary stating that the death was due to cyanide poisoning. The senior medical officer at the R.A.F. station said that Jones' work was entirely satisfactory. He had worried over the paper work (the counting of stocks and medical stores) but there was no need for him to do that.

## BIRTH

GAY.—At Royal Simpson Memorial Pavilion, Edinburgh, on April 11, to the wife of Robert Gay, M.P.S., 147 St. Johns Road, Corstorphine, Edinburgh, a son.

## MARRIAGE

O'DONNELL—MANNING. — At University Church, Dublin, recently, John Patrick O'Donnell, M.P.S.I., Main Street, Charlestown, co. Mayo, to Nancy Manning, L.P.S.I., Redmondstown, Castletowngeoghegan, co. Westmeath.

## DEATHS

BEESON.—On March 29, Mr. Francis George Beeson, M.P.S., Old Crown, Thorncombe, nr. Chard, Somerset, aged sixty-seven. Mr. Beeson qualified in 1909.

CAMERON. — On March 31, Mr. Peter Macfarlane Cameron, M.P.S., 108 Wilton Street, Glasgow, N.W., aged sixty-seven.

CLARKE.—On April 14, suddenly, Mr. Sidney Clarke, 88 Riverway, Palmers Green, London, N.13, aged seventy-six. Mr. Clarke had been with the firm of Berdoe & Fish, chemists' transfer agents and valuers, King's Cross, London, for sixty years, first with Mr. Berdoe and later with Mr. Fish. For twenty-seven years he had been in partnership with Mr. R. T. Farthing who is now carrying on the partnership with the late Mr. Clarke's son, Mr. W. H. Clarke.

DON.—On March 25, Mr. George Don, 36 Clarence Drive, Glasgow, Lanarks, and formerly 5 East Loan, Prestonpans, East Lothian, aged seventy-nine. Mr. Don qualified as a chemist and druggist in 1901.

GIBBONS.—Recently, Mr. Alfred John Gibbons, M.P.S., 20 King's Road, Cowplain, Portsmouth, Hants, aged ninety-two. Mr. Gibbons was for many years pharmacist at St. Thomas's Hospital, London.

HARDING.—On April 18, Mr. William Richard Harding. Mr. Harding was chief buyer to Kemball, Bishop & Co., Ltd. He had over thirty-eight years' service with the company during the last thirteen of which he held the office of chief buyer.

HUTTON.—At a nursing home in Birmingham, on March 25, Mr. John Hutton, formerly 8 High Street, Brechin, Angus, aged eighty-five. Mr. Hutton qualified as a chemist and druggist in 1895.

JACQUES.—On March 14, Mr. Percy Jacques, M.P.S., 83 Rochdale Road East, Heywood, Lancs, aged seventy-five.

JONES.—At The Pharmacy, Trawsfynnydd, Merioneth, on April 13, suddenly, Mr. Edward William Jones, M.P.S. Mr. Jones qualified in 1920.

JONES. — At 8 Buteland Terrace, Newbiggin-by-the-Sea, Northumberland, on April 6, Mr. Thomas Henry Owain Jones, M.P.S., aged eighty. Mr. Jones was formerly in business at Abergele, Denbighs, and Wavertree, Liverpool.

LAWRENCE. — On April 11, Mr. George Richard Lawrence, F.P.S., 20 Highfield Park, Rhyl, Flints, aged ninety-six. Mr. Lawrence qualified as a chemist and druggist in 1880 and passed the Pharmaceutical Chemist examination in 1886. He was regarded as the doyen of pharmacists in North Wales. He was a native of Boston, Lincs. He went to Rhyl in 1886, taking over a pharmacy in the High Street. He retired in 1940 but the business was carried on by his eldest son, Mr. G. R. Lawrence, M.P.S.

LAWTON.—On March 19, Mr. Ernest Aubrey Lawton, M.P.S., 20 Barton Court Road, New Milton, Hants, and formerly 4 Sandringham Mansions, Exeter Road, Bournemouth, aged seventy-six.

LUNDIE.—Recently, Mr. John Lundie, M.P.S., 44 High Street, Margate, Kent, aged forty-seven.

McDONALD. — At Market Square, Earlston, Berwicks, on April 11, Mr. Charles Sanders Smith McDonald, M.P.S. Mr. McDonald qualified in 1900.

POUT.—At 45 Barbourne Road, Worcester, on March 23, Mrs. Ellen Pout, wife of Mr. Donald George Pout, M.P.S.

RADFORD. — In a Cheltenham nursing home on April 10, Mr. Percy J. Radford, Alberton, All Saints' Road, Cheltenham, secretary and works manager of the United Chemists' Association, Ltd., from its formation over thirty years ago. He was a member of the Royal Union Lodge of Freemasons. He is survived by his widow and a daughter.

ROBINSON.—On April 3, Mr. John George Robinson, F.P.S., Will Spring, Mill Lane, Hythe, Kent, aged seventy-seven. Mr. Robinson qualified as a chemist and druggist in 1899, and passed the Pharmaceutical Chemist examination in 1900.

STEELE.—On March 29, Mr. John Steele, M.P.S., 2 Maples Street, Nottingham, aged seventy-three.

WORTH.—Recently, Mr. Arthur James Worth, M.P.S., 15 Mount Heatherbank, Richmond Gardens, Bournemouth, Hants. Mr. Worth qualified in 1900.

## PERSONALITIES

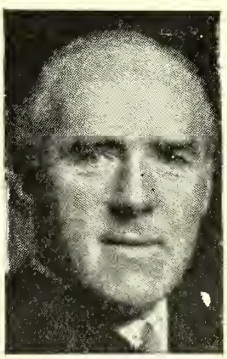
COUNCILLOR J. O. JOHNSTONE, M.P.S., Wallingford, Berks, has accepted an invitation to be the mayor of the borough for a second year.

DR. FRANK HARTLEY (scientific services director, The British Drug Houses, Ltd.) has been elected to the council of the Royal Institute of Chemistry.

MR. T. D. WHITTET, F.P.S. (chief pharmacist, University College Hospital), has been elected a Fellow of the Royal Institute of Chemistry and to the Freedom of the Society of Apothecaries.



Mr. T. D. Whittet



Ald. E. Thompson

ALDERMAN EDWIN THOMPSON, M.P.S., governing director of Thompson & Capper Wholesale, Ltd., is to retire from the Liverpool City Council in May after forty years' continuous service as a member. Alderman Thompson's services to Liverpool were recognised by his election as lord mayor in 1930, and he was president of the British Waterworks Association in 1931–32. Two years later he became president of the Society of Chemical Industry, and in 1944–45 he was High Sheriff of Lancashire. For some years he has been on the Council of the Duchy of Lancaster. During his lord mayoralty, Alderman Thompson was the originator of the scheme that led to the foundation of the Lancashire Industrial Development Council.

# PHOTOGRAPHIC NOTES

**Available Now in 828 Size.**—Kodak Plus-X film is now available from Kodak, Ltd., Wealdstone, in 8-exposure rolls in 828 size for Kodak Bantam cameras. The film is a fast panchromatic, intermediate in speed between Panatomic-X and Super-XX.

**Duplicate Transparencies.**—The duplicate colour transparencies being supplied by Kodak, Ltd., Wealdstone, are now so near the originals that, when they are examined alone, the duplicate is not easily distinguished from the original. Even when the two are set side by side the difference is not very marked.

**Retouching Knife.** — The Swann-Morton Handi tool, marketed by Ilford, Ltd., Ilford, is a folding retouching knife for the keen amateur photographer. Four detachable blades are supplied, each being of a different shape. When a knurled screw-head is taken off and a screw withdrawn, the blade slips out of the handle. The screw-head is loosened for folding the blade into the handle. Repeated use does not take the edge off any of the blades. Other uses suggested for the knife are print trimming, paper sculpture, marquetry and biology, to mention only a few. The knife measures 5 in. open, 4 in. closed.

**Wetting Agent for Rinse Baths.**—Recent research by Kodak, Ltd., Wealdstone, Middlesex, has shown that one wetting agent is inadequate to meet all the requirements of photographic processing: two are required, one for addition to developers and pre-developer baths to promote even development; and the second for use in final rinse baths. For final rinse baths a concentrated new wetting agent, Kodak Photo-Flo solution has been introduced. Diluted 1 to 200 parts water it makes a final rinse solution that cuts drying time by about 25 per cent. It may also be added to colouring, opaque, spotting and retouching mediums.

**Glue Pen.**—The Poppet Stick-a-pen, marketed by Ilford, Ltd., Ilford, Essex, is, at 5¾ in. long, about the size of an average fountain pen. It is blue in colour, made of unbreakable polythene. 2-oz. polythene bottles are also supplied so that the pen may be refilled, which is done simply by unscrewing the white plastic top of the pen and pouring in the liquid. The Poppet is used by merely taking off the cap (just like a fountain pen) and pressing the point of the pen on to the paper, when a small spot of adhesive is deposited. On test, the pen was found to function most efficiently. Even when it had been left unused for some days the point did not dry up and action was immediate—thanks, no doubt, to the cap.

**Miniature Film Speed Increased.**—Kodak Super-XX miniature film for 35-mm. and Kodak Bantam miniature cameras (828 size), now being delivered to dealers by Kodak, Ltd., Wealdstone, is appreciably faster than the film hitherto supplied. Packages containing the new film carry the wording "Increased speed." Exposure indices suitable for meters based on the British Standards system or the American Standards Association system are:—

| | Daylight | Tungsten |
|---|---|---|
| Logarithmic | 33° | 32° |
| Arithmetical (suitable also for Weston meters) | 160 | 125 |

The colour sensitivity of the new film is unchanged; filter factors are the same; and the graininess characteristics are similar to those of the original film. Resolution is higher.

**Exposure-reducing Developer.** — A frequent characteristic of fine-grain developers is the effective loss of emulsion speed. In Microphen, manufactured by Ilford, Ltd., Ilford, the makers claim to have produced a fine-grain developer, which compared with such a developer as ID11, enables camera exposures to be halved. The product incorporates the new Ilford Phenidone developing agent. Like other Phenidone-based developers it has little tendency to stain fingers or clothes and is unlikely to cause dermatitis. It may be used effectively with a high-speed film such as HP3 without producing excessive contrast or density and attendant increase of grain. Tests made with that film, rating it as 100 Weston, using a portrait subject and employing hard lighting, produced, at the recommended development time of ten minutes at 68° F., less a one-third reduction for portrait negatives, a negative of soft gradation, with no dense highlights. Even when examined through a magnifier the grain was exceptionally fine. Enlargements to varying magnifications showed the grain to be small and evenly disposed. Microphen is packed in two-packet tins (2·5 litres, 13·5 litres, 22·5 litres and 600 c.c.).

**Now Available.**—Kodak, Ltd., Wealdstone, Harrow, Middlesex, announce that supplies of the Kodak Retinette camera, which was first shown at Photokina, Cologne, Germany, in April 1954, are now being imported into Britain. The camera has been completely restyled and now incorporates technical refinements that make it one of the most outstanding inexpensive miniature cameras on the market. Its main features are its high-quality 45mm. f/3·5 Schneider Reomar lens with front-cell focusing, its flash-synchronised Compur-Rapid shutter with speeds from 1 to 1/500 second, and its built-in delayed-action device. One movement of the lever on the bottom of the camera sets the shutter, winds the film and works the exposure-counter. Other features include a smooth-acting shutter-release on the camera body; interlock mechanism to prevent double exposures; depth-of-field scale; and large, clear view-finder which facilitates correct sighting of subjects by those who wear spectacles. The Kodablitz flashholder has been designed to fit the Kodak Retinette and other cameras having a suitable accessory shoe. It is a battery-capacitor unit taking a 22·5 volt hearing-aid battery.

# TRADE NOTES

**New Marketing Arrangements.**—Nicholas Products Laboratories, Ltd., 71 Buckingham Avenue, Slough, Bucks (a member of the Aspro group of companies), have taken over from Advance Industries, Ltd., the marketing of Dip and Dis-pel.

**Displaypiece.** — Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, have brought out a new sales aid for Carnation corn caps and Adaptoplast. The unit holds eighteen Carnation corn-cap cartons, twelve small tins and three




large tins of Adaptoplast. Both items are on the C.F. list. The size is 10 in. wide, 12 in. high, and 9 in. front to back.

**Touring Exhibition Unit.**—A combined exhibition-and-discussion unit has been prepared by James A. Jobling & Co., Ltd., Sunderland, makers of the famous Pyrex brand laboratory and scientific glass, for use at smaller scientific exhibitions.

**Distributor Appointed.** — Walter Crowe, Ltd., 3 Little Russell Street, London, W.C.1, have been appointed sole distributors for Pied Piper domestic rodenticide, the manufacturers of which are C. F. Gerhardt, Ltd., 5 Fenchurch Street, London, E.C.3. The arrangement does not affect Dethmor warfarin concentrate, orders for which should continue to be sent direct.

**Tenders Invited.**—The Export Services Branch of the Board of Trade has been notified that the Provincial Administration of the Cape of Good Hope is calling for tenders for microprojection equipment, basal metabolic rate apparatus, and an electrocardiograph machine. Details are given on form TEN/12881. The Belgian Minister for the Colonies is inviting tenders for rubber drainage tubing, surgical gloves, enemas, etc., for hospital use; and the provincial administration of the Cape of Good Hope for bandages and dressings. Inquirers to the Branch should ask for forms Ten/13153 and Ten/13159 respectively.

**Hecogenin Acetate.** — T. & H. Smith, Ltd., Blandfield Chemical

Works, Edinburgh, announce that hecogenin acetate is available for evaluation purposes. Supplies, manufactured under licence from the National Research Development Corporation, are at present limited, but will increase in the near future. The company has been engaged on extraction and purification of hecogenin on behalf of the N.R.D.C. during the past two years (see annual report, 1953–54), and the project is now being operated on a full works scale. The successful conversion of hecogenin to cortisone has already been announced by a British firm, and it is believed that, with increasing scale of production, hecogenin will become a highly competitive raw material for the manufacture of sex hormones and cortical steroids. The bulk of the supply of crude hecogenin is obtained from sisal estates in Tanganyika, and Messrs. Smith have been closely associated with the setting up and operation of the plant there. A specification for hecogenin acetate is available.

### Bonus Offers

SHARP & DOHME, LTD., Hoddesdon, Herts. Sucrets. Until April 30, twenty-four tins free with an order for 144 and six tins free with an order for forty-eight.

W. B. CARTWRIGHT, LTD., Rawdon, Leeds. Moorland indigestion tablets. During May, 13 to the doz. and special trade terms. Purchase tax is paid on bonus packets.

# SHOPFITTING NOTES

**Window Demisting Unit.** — A new heater unit produced for demisting shop windows by the Warm-Glow Co., Ltd., Progress Road, Leigh-on-Sea, Essex, is easy to install and inexpensive in use. In the illustration, the heater is shown as lines along the front of the window. It also keeps merchandise dry. The unit is insulated in special plastic which is flameproof and withstands the gentle heat indefinitely. Eight hours' use costs only one unit of electricity.

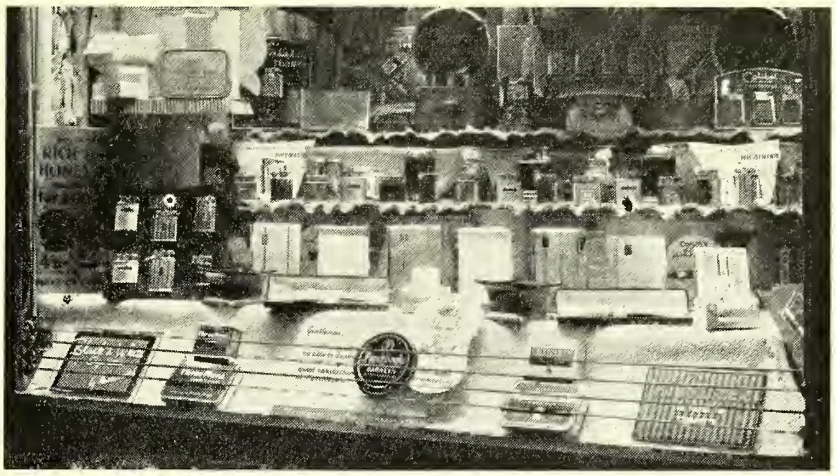
**Thermoplastic Floor-tiles.** — Heat loss through wooden floors is lessened and draughts through the floor or around the skirtings avoided, by the use of thermoplastic tiles, such as the Marley tiles used in the pharmacy



**Marley-tiled floor at the pharmacy of C. J. Hopkins, M.P.S., Inner Park Road, Wimbledon, London, S.E.19.**

illustrated. Marley tiles are damp-proof and do not shrink. The colours are part of the tile and cannot wear off. The tile-by-tile method of installation makes it possible to produce any desired pattern variation. Thermoplastic tiling is laid on old as well as new floors. The makers, Marley Tile Co., Ltd., London Road, Riverhead, nr. Sevenoaks, Kent, offer users a maintenance and advisory service. An improved tile is greaseproof and resistant to most normal acids, alkalis and fats, and can be laid on wood floors.

**Personal Weighing Machine.** — Herbert & Son, Ltd., 38 Charterhouse



Street, London, E.C.1, make a white-enamelled personal weighing machine that complies with the British Standard specification and with weights and measures by-laws. The machine is guaranteed for twelve months. Hire-purchase terms are available.

**Low-temperature Linings.** — For its good physical characteristics at low temperatures and its hard-wearing and hygienic qualities, Warerite was chosen for lining the walls and ceiling of a building in Belfast used by Gland Supplies, Ltd., for the storage of animal gland material used in the production of insulin, etc. The building comprises an air lock and three cold rooms in which the temperature may be reduced, at times, to minus 47° F.

**Display Frames Built from Units.**— With the same set of Spaceframe parts a wide variety of "contemporary" display frameworks can be constructed to suit many kinds and sizes of goods for sale. The assemblies are all built up on the simple principle of fitting a peg into a tube. The Spaceframe itself (a horizontal concave-sided quadrilateral with a short vertical at each angle), H-bars and peg-in shelf supports are of metal rod; the legs are of metal tube. No clips, clamps or bolts are used in fitting them together. Hardwood ball ends are available to give a decorative terminal to the verticals in a built-up stand. The makers are Marler Haley Studios, Ltd., Lavina Grove, London, N.1.

**Modern Interchangeable "Showcards."**—A low-priced interchangeable letter system consisting of a polyvinyl chloride panel to which rigid plastic letters can be made to adhere solely by pressure of the thumb has been produced by Presgrip Sign Co., 55A Eastgate Street, Winchester, Hants. The outfit provides what are in effect showcards capable of being used over and over again without risk of monotony or dullness. The background is in red or black in a 1¼-in. wide frame of cardboard coloured grey and relieved by thin blue and yellow lines. The letters of rigid white plastic are applied to the surface by slight pressure with the thumb. They "stay put" without any adhesive, and, when it is desired to change the message are easily removed by the inscrtion of a finger nail beneath one edge. The set comprises one showcard (9½ x 11 in.) and 118 letters (¾-in. high and ⅛-in. thick).



# PROBLEMS OF DRUG ADMINISTRATION

## Application of modern techniques

MODERN aspects of drug administration were discussed by Mr. T. D. Whittet (chief pharmacist, University College Hospital, London) when he addressed a recent meeting of the Sunderland Branch of the Pharmaceutical Society.

Until comparatively recently, said Mr. Whittet, much of the formulation of medicines was done by the prescriber. With the advent of many new and potent drugs, most of which were complex organic chemicals, and the development of new synthetic substances as vehicles, solvents, suspending agents, etc., most formulation was now left to the compilers of standard reference books or to research laboratories.

### The Tablet

The most common form of oral presentation was the tablet. Coatings should only be applied to tablets to cover the taste of very nauseous drugs or to protect the active ingredient from decomposition by atmospheric oxygen, moisture or carbon dioxide. Enteric coating might be necessary to prevent destruction of the drug by gastric acid, to prevent nausea with irritating drugs, or when the action of the drug was required in the intestine.

The introduction of sodium aminosalicylate and of ion exchange resins used to aid the excretion of sodium via the bowels had revived the use of cachets.

Hard gelatin capsules were now widely used. They were a convenient method of administration and had the advantage of more rapid disintegration.

In prescribing for children, the use of flavoured liquid medicines was almost unavoidable. It was found that when chloramphenicol was converted into its palmitate it became practically tasteless and if flavoured with vanilla made quite a pleasant preparation. The barbiturates and antihistamine drugs were now often dispensed in the form of elixirs containing a high proportion of alcohol together with glycerin or propylene glycol. Since those drugs were much more potent than those previously dispensed in liquid form, it was becoming more essential that patients should use medicine glasses to measure doses accurately. The dispensing of highly potent drugs as very palatable preparations also brought the danger of accidental poisoning of children. The soluble barbiturates were quite stable in propylene glycol, whereas they were relatively unstable in aqueous solution. Calciferol had been shown to be much more readily absorbed when administered in propylene glycol than when given in oil. The new emulsifying agent polyoxyethylene sorbitan mono-oleate was so powerful that it could produce such fine emulsions of oils in water that globules of the oily phase could not be detected with the naked eye and the preparation appeared like a true solution. The fat soluble vitamins had been shown to be more readily absorbed when given in such preparations. The following methods of masking unpleasant tastes were available: The use of a flavouring agent which had something in common in its flavour with the bitter drug, e.g., orange with gentian or quinine; the use of substances such as menthol or oil of peppermint to produce a mild local anæsthesia in the gustatory areas; the use as a vehicle of colloidal substances like mucilage of acacia; and the use of moderate concentrations of sodium chloride.

The parenteral route was probably the most important method of drug administration available. Substances for subcutaneous or intramuscular injection were usually limited to a *pH* range of from 3 to 8·5. Outside that range severe pain might be caused and excessive alkalinity was likely to cause necrosis of the tissues. The stability of many injections was also greatly affected by *pH*. Some were deliberately made hypertonic, e.g., hypertonic saline or dextrose to relieve intracranial pressure in patients suffering from meningitis or hydrocephalus. Intrathecal injections were usually made isotonic with the cerebrospinal fluid, but spinal anæsthetics were often made to have a density greater or less than cerebrospinal fluid to influence the area of anæsthesia.

If a drug intended for injection was insufficiently soluble in water, other non-toxic solvents such as propylene glycol could be added. Insoluble drugs could be given intramuscularly in the form of either oily or aqueous suspensions. Some oil-soluble drugs could be made water-soluble by converting them into glycosides. Oil-soluble drugs had also been injected intravenously in the form of emulsions.

One method of delaying absorption was by adding adrenaline or other vasoconstrictors to injections. Generally speaking, the more water-soluble a drug, the more rapidly it was absorbed. The obvious method of prolonging a drug's action was therefore to convert it into a less soluble salt, ester or complex, and to inject that either as a suspension or as a solution from which it would be precipitated, at the site of injection, when it came into contact with tissue fluids.

Increasing the viscosity of an injection also prolonged the action. When a water miscible solvent was used to prepare an injection of a water insoluble drug the solvent, after injection, would be rapidly diluted by the tissue fluids and the drug precipitated. The effect was thus much the same as that produced by an aqueous suspension. When an oily preparation was injected it was the surface area rather than the volume that determined the rate of release of the drug. Thus a more rapid effect would result from the administration of a given volume if it was divided and injected into two or more sites.

The subcutaneous implantation of compressed or fused tablets was now a well-established method of depôt therapy.

In contrast to depôt therapy giving prolonged action, the opposite effect could be obtained by the use of hyaluronidase which, when added to fluids injected into subcutaneous tissues, produced rapid spreading and absorption of the injected material.

# WAGE INCREASE FOR ASSISTANTS

## Partial revision of Joint Council Agreement

REVISED minimum rates of remuneration for "shop assistants" and "all other male workers" under the National Joint Industrial Council for Retail Pharmacy Agreement are effective from the pay-day in the week commencing May 2. The revised rates are given in the table below:—

| | London | | Provincial A | | Provincial B | |
|---|---|---|---|---|---|---|
| | Male | Female | Male | Female | Male | Female |
| **Shop Assistants (other than apprentices)** | | | | | | |
| Age 23 years | 135s. 0d. | 101s. 0d. | 130s. 6d. | 96s. 6d. | 123s. 6d. | 88s. 6d. |
| Age 22 years | 125s. 6d. | 92s. 6d. | 120s. 0d. | 88s. 0d. | 113s. 6d. | 81s. 6d. |
| Age 21 years | 119s. 0d. | 85s. 0d. | 112s. 6d. | 79s. 6d. | 106s. 0d. | 73s. 0d. |
| Age 20 years | 97s. 6d. | 74s. 6d. | 92s. 0d. | 70s. 6d. | 86s. 6d. | 65s. 0d. |
| Age 19 years | 85s. 0d. | 68s. 6d. | 79s. 6d. | 64s. 6d. | 74s. 0d. | 59s. 0d. |
| Age 18 years | 72s. 6d. | 62s. 0d. | 67s. 0d. | 58s. 0d. | 62s. 6d. | 53s. 6d. |
| Age 17 years | 58s. 6d. | 53s. 0d. | 53s. 0d. | 47s. 6d. | 48s. 6d. | 43s. 6d. |
| Age 16 years | 52s. 6d. | 44s. 6d. | 47s. 0d. | 41s. 6d. | 43s. 0d. | 37s. 6d. |
| Age under 16 | 46s. 6d. | 40s. 6d. | 41s. 6d. | 37s. 6d. | 38s. 6d. | 33s. 6d. |
| **All Other Male Workers (other than apprentices)** | | | | | | |
| Age 23 years | 125s. 6d. | | 121s. 0d. | | 119s. 6d. | |
| Age 22 years | 121s. 0d. | | 115s. 6d. | | 109s. 0d. | |
| Age 21 years | 115s. 0d. | | 107s. 0d. | | 100s. 6d. | |
| Age 20 years | 94s. 0d. | | 85s. 6d. | | 81s. 0d. | |
| Age 19 years | 81s. 6d. | | 74s. 0d. | | 69s. 6d. | |
| Age 18 years | 71s. 6d. | | 66s. 0d. | | 61s. 6d. | |
| Age 17 years | 57s. 6d. | | 52s. 0d. | | 47s. 6d. | |
| Age 16 years | 51s. 6d. | | 46s. 0d. | | 42s. 0d. | |
| Age under 16 | 45s. 6d. | | 40s. 6d. | | 37s. 6d. | |

The present revisions do not affect male and female unqualified assistants who have completed not less than three years' continuous experience in pharmacy and who are wholly or mainly engaged in dispensing.

# LOCAL DINNERS AND DANCES

FINCHLEY

## Party Aids Benevolent Fund

A STAG party, held recently by the Finchley division of the North London Pharmaceutical Association in aid of the Pharmaceutical Society's Benevolent Fund produced a sum of £42 10s. 6d. Three gramophone records autographed by Miss Winifred Atwell (vice-chairman of the division) were auctioned, bringing in £7 16s., and a sparklet syphon presented by Mr. H. H. Carter and dealt with in the same manner yielded £3 2s.

BIRMINGHAM

## Raffle Aids Birdsgrove House

A RAFFLE held at the annual dinner and dance of the Birmingham Pharmaceutical Association at Edgbaston recently realised the sum of £20 in aid of Birdsgrove House. Over 200 guests were present, including Mr. E. A. Brocklehurst (president of the Pharmaceutical Society), Professor H. Berry (Dean of the School of Pharmacy, University of London), Mr. L. H. Teare (chairman of the Executive of the National Pharmaceutical Union), Messrs. Walton and Rimmer (chairman and secretary respectively of the Wolverhampton Branch of the Society), the lord mayor of Birmingham, and representatives of the Wolverhampton, Dudley and Stourbridge Branches of the Society. Mr. F. R. C. Bateson presided.

ABERDEEN

## Conference Chairman as Guest

PRINCIPAL guests at the annual dinner and dance of the Aberdeen Pharmaceutical Association, held recently, were Professors J. P. Todd (chairman of the British Pharmaceutical Conference, 1955) and J. M. Graham (lord provost of Aberdeen). The guests were welcomed by Mr. W. C. D. Bain (president of the Association), and included representatives of Aberdeen Branch of the British Medical Association and Aberdeen Executive Council. PROFESSOR TODD proposed the toast "The City of Aberdeen" and PROFESSOR GRAHAM replied, both speakers complimenting the Conference organisers on their choice of Aberdeen as the 1955 venue. Other speakers included Mr. Bain and Mr. A. J. Mackie (vice-president of the Association).

MANCHESTER

## Eminent Guests

GUESTS at the annual dinner and dance of the Manchester Branch of the Guild of Public Pharmacists held recently, included Dr. Harold Davies (chief pharmacist, Ministry of Health), Messrs. F. W. Adams (a secretary and the registrar of the Pharmaceutical Society) and Norris Agnew (chairman, Manchester Regional Hospital Board), and Sir Harry Platt, (president, Royal College of Surgeons). Proposing the toast "The Guild of Public Pharmacists," DR. DAVIS quoted, "without comment," from speeches made in the House of Commons on February 16, when Mr. H. A. Marquand (a former Minister of Health), had said that the Linstead report would not be carried out fully and effectively unless the staffs in hospitals could be strengthened, and that it would be a great economy to build up a good hospital pharmaceutical service which would be an example to the whole profession; Sir Hugh Linstead had said that economics in pharmaceutical costs in hospitals could only be secured in so far as the chief pharmacist in each hospital was a person of substantial scientific knowledge, who was respected and whose advice was listened to by the consultant and hospital medical staff. The toast of "Our Guests" was proposed by MR. G. RAINE, who welcomed representatives of manufacturing firms and thanked them for the help they frequently gave the hospital pharmacist. Replying to the toast, SIR HARRY PLATT drew attention to the contribution that manufacturing firms made to medical research.

NORTH STAFFORDSHIRE

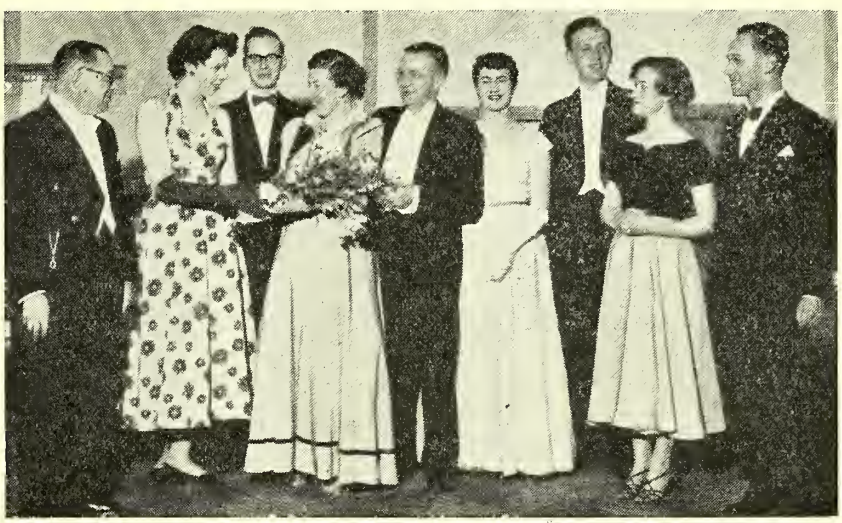
## Home for Retired Pharmacists

THE country was faced with the growing problem of old age and loneliness, said MR. E. A. BROCKLEHURST (president of the Pharmaceutical Society) at the recent annual dinner of the North Staffordshire Branch of the Society, held recently. It was his wish, said Mr. Brocklehurst, that the profession should provide a residential home for pharmacists or the widows of pharmacists who were unable to live on their own. It was a project which would require the support of all members. Mr. Brocklehurst was replying to the toast "The Pharmaceutical Society" proposed by Mr. E. H. Richards (president, North Staffordshire Medical Society). MR. RICHARDS said the history of the Pharmaceutical Society was impressive. It had raised the profession to a high eminence. MR. G. B. SOCKETT (president of the Branch) proposed a toast to the guests and MR. J. S. HILTON (president, North Staffordshire Society of Dental Surgeons) responded. A cheque for £10 for the Society's Benevolent Fund was presented to Mr. Brocklehurst by Mrs. Sockett on behalf of the Branch ladies' committee. A replica of the presidential badge was presented to Mr. J. T. Asher (immediate past-president of the Branch).

COVENTRY and WARWICKSHIRE

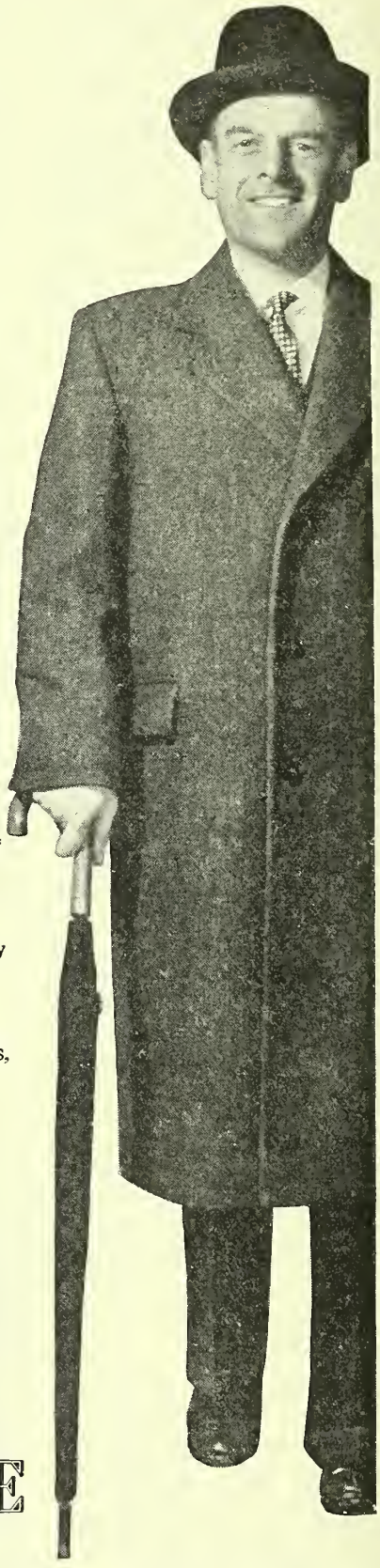
## Thirty Years' Service

A SILVER rose bowl was presented to Mr. W. A. Bales at a dinner given in his honour by the Coventry and Warwickshire Branch of the Pharmaceutical Society recently to mark their appreciation of his thirty years' work for the Branch. The presentation was made by MR O. T. HALL (chairman of the Branch) who paid tribute to the work Mr. Bales had done for the Branch since its formation and particularly during his five years as chairman. Always willing to give his help and advice, Mr. Bales was the friend of pharmacy and Warwickshire pharmacists in particular. MR. BALES acknowledging the presentation, said that it was fifty-two years since he had entered pharmacy as an apprentice. He recalled the coming of the National Health Service and had been a member of the local Pharmaceutical Committee since its formation, subsequently becoming its chairman, a position he still held. He was one of the pharmacist representatives on the Coventry Executive Council and served on several committees. He had been chairman of the Coventry Branch of the National Pharmaceutical Union for many years and his various activities had taken up a considerable amount of time. Referring to the success of the Branch, Mr. Bales mentioned the gift of the television set to Birdsgrove House and the sum of £50 collected in response to the appeal of the president of the Society. He thanked the members and the officers for their support during his term of office as chairman.



**SUNDERLAND STUDENTS' DINNER-DANCE: Left to right: Mr. J. C. Penman (treasurer), Miss E. Greenaway (secretary), Mr. F. R. Catterick, Mrs. F. H. Oliver, Mr. F. H. Oliver (president), Miss J. Manghan, Mr. M. S. Mather (chairman), Miss P. Stephenson, and Mr. S. Gottlieb (vice-chairman).**





# Between the 'up' and the 'about'

Serious illness is inevitably followed by a frustrating period of convalescence. Metatone,* with its stimulating, appetite-promoting combination of vitamin $B_1$ with strychnine and mineral glycerophosphates is ideally suited for the rapid restoration of normal metabolic function. It is specially valuable after 'flu and similar debilitating illnesses, after surgical operations, in neurasthenia and during pregnancy and lactation.

FORMULA
*Each fluid ounce of Metatone contains:*

| | |
|---|---|
| Vitamin $B_1$ | 3 mg. |
| Calcium Glycerophosphate | 4 gr. |
| Potassium Glycerophosphate | 4 gr. |
| Sodium Glycerophosphate | 2 gr. |
| Manganese Glycerophosphate | ½ gr. |
| Strychine Glycerophosphate | 8/200 gr. |

# METATONE

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## The Remuneration Inquiry

It was revealed at the N.P.U. area conference held in Llandudno (see p. 446) that there was still hope that the response to the dispensing costs inquiry would prove to be numerically sufficient to provide facts that could be accepted with confidence. Once that hope has been realised the way will be almost open to the interpretation of the facts and the eventual establishment of new remuneration scales for contractors. But before that there is a further hurdle to be surmounted: agreement must be reached on how a stalemate on such interpretation, should it arise, is to be resolved.

It might seem that to spend much time (it already amounts to at least eight months) on an eventuality that may never happen is carrying insurance against risks too far. But it is well to remember the old adage that he who sups with the devil should hold a long spoon. Mr. J. Wright (assistant secretary, N.P.U.) pointed out at the conference that the Ministry of Health might not—in the event of a deadlock—agree to refer the matter to arbitration. No doubt the Ministry would be only too happy to act as arbiter in its own cause. However, the fact that the allocation of costs between the dispensing and sales side has now been agreed gives hope that this problem of stalemate may yet be settled also.

The Ministry evidently suffers from a certain schizophrenia where remuneration is concerned; for it is apparently quite happy that the farthing allowance per form for the shilling levy charge should be cut at once, while the container allowance, which is obviously too low, awaits a settlement of remuneration as a whole. The riddle is, when is remuneration not remuneration? Is the Ministry's answer to that when the remuneration is lower than it should be? If it is, then it is not an answer that will add to the Ministry's prestige.

One ray of hope was forthcoming at Llandudno; it was that there may be some improvement in terms for the supply of oxygen.

One other matter that closely bordered on remuneration was discussed at Llandudno. It was the question of "urgent" prescriptions in rural areas. The wording of the resolution on the subject seemed to imply that some improvement in remuneration was required; but if that was so it is hard to see how that could add to the pharmacist's recreation, the shortage of which the proposer of the resolution complained. There would, however, be little danger of that solution to the problem. As was indicated from the platform, the Ministry would be more likely to advocate a later closing hour if too many prescriptions were being presented after hours. The most sensible suggestion seemed to be that local action in urging doctors to have earlier surgeries might yield appreciable relief.

The meeting showed wisdom in rejecting, after advice from the platform, a motion that had the object of transferring to the Pharmaceutical Society responsibility for the drug-testing scheme unless the Ministry could be persuaded to drop the scheme entirely. The conference was soon persuaded that while the Society might be fatherly it was perhaps sometimes a harsh parent.

## Landlords Must Renew—but Tenants Must Pay

Now that the Landlord and Tenant Act, 1954, has been in operation for six months, some of the practical problems in connection with its working are gradually coming to light. The business tenant is naturally specially interested in obtaining a new tenancy at as low a rent and for as long a term as possible. Under the Act the tenant *must* be granted a new tenancy unless the landlord establishes one or other of the allowable grounds of objection to its grant.

The most common objection put forward by the landlord is that he wants possession for the purpose of his own business. Unless, however, his need for possession is immediate, that is at the date of the termination of the current tenancy, his objection fails. It is not enough that he may be wanting possession at some future date. If he states, however, that he may require possession at a later date, the court will not grant the full term of fourteen years but a smaller term, set so as to enable the landlord to take steps to obtain possession at that later date. The court would be inclined in those circumstances to favour the landlord and to grant a shorter term, because the tenant has more than one opportunity to ask for an extension. Under the Leasehold Act, 1951, though the tenancy could not be extended for more than one year, the tenant was entitled to come again and ask for further renewals. That position remains under the 1954 Act.

A tenant who has applied for a new tenancy may find that the market rent has increased to such an extent that he could not afford to pay it. If he fights the case in court, and the court fixes a rent, which he finds still too high, he can withdraw by giving notice to that effect within fourteen days. Where the market rent is much above the old rent, and the tenant is unable to afford it, a landlord who has a valid ground requiring possession for himself may find it profitable not to raise the matter at all. For while the tenant would not get his new tenancy, he would be entitled to compensation equal to twice the rateable value. The landlord, by not raising the matter, would probably find that the court would order the high rent, with the result that the tenant would be obliged to give notice of withdrawal. If he gave notice, he would recover no compensation. The amount of the market rental the premises could command is of supreme importance, since the tenant is bound to pay it under his new tenancy, however small the rent under the original tenancy may happen to be. It is true that in fixing it, the court will discount any increase in market rental due to goodwill created by the tenant's trading and that of his predecessors in title. Even so, the market rental will be found to be much in advance of what it

was in 1938. There is no restriction, moreover, on the right of the landlord to enjoy the full rental value of his property, even though it may have been enhanced by development of the neighbourhood or by other factors with which neither the landlord nor the tenant may be concerned.

A factor that must be discounted in fixing the rent is the fact of the occupation of the premises by the tenant or his predecessors. What that means is that, in the fixing of the rent, it is assumed that the premises are vacant and on offer in the condition in which they are, and an assumption is likewise made of what a hypothetical landlord of the premises would expect to receive by way of rent from a hypothetical prospective tenant. Any increase over the normal market rent that the present sitting tenant himself might be prepared to pay, to avoid the inconvenience of having to find other premises and set up business there has to be ignored. Similarly, one must ignore any diminution of rent which the landlord might be prepared to accept from the sitting tenant because he is satisfied with him and will, by keeping him, avoid risk of a vacant period followed by a new tenant of unknown suitability.

# Onward from Galen

## A CURRENT CAUSERIE

IT is a matter for speculation how much homœopathy owes for its survival after the death of its founder, Hahnemann (the subject of a descriptive article in the *C. & D.*, April 16, 1955), to his French wife. Mme. Hahnemann continued in homœopathic practice after her husband's death. In doing so she came into conflict with the authorities and was fined 100 francs for practising medicine without a diploma, though a turn of the political wheel—the downfall of the July Monarch in 1848—had as one result that there was no further interference with her activities. Relics of Hahnemann's Paris period preserved at the Royal London Homœopathic Hospital include six small bottles out of the pocket medicine case which he used daily in Paris, 1835-43; one is crushed, but it is possible to identify from their labels oleander, pertussin, secale, and ignatia. Another relic is the globule chest made for Dr. Hahnemann by G. Weber, pharmacist, Paris, and given by Hahnemann to a patient. Measuring about 12 x 6 x 12 in., it was presented to the hospital by James Epps, & Co., London. Incidentally, it was the London Homœopathic Hospital by whose courtesy the portrait of Hahnemann that appeared at the head of the article was forthcoming.

In Britain, homœopathy enjoys royal patronage, and the British Homœopathic Society was incorporated by Act of Parliament as the Faculty of Homœopathy in 1950. Membership in all grades is restricted to registered medical practitioners. The Faculty is celebrating the bi-centenary of its "founder" with a meeting at the Royal Society of Medicine in May and a dinner.

★

BRILLAT-SAVARIN, about whom a paragraph appeared in this column on April 2, was a successful advocate before he became a gastronome. At the age of thirty-four he was elected to the Constituent Assembly and was later appointed a judge of the Court of Cassation. During the French Revolution he escaped to America, where he taught French and played in the orchestra of a New York theatre. In his leisure hours he wrote on political economy, law, and archæology. *Physiologie du Goût*, the work for which he is world famous, is no mere cookery book or catalogue of exotic dishes, but a delightful and fascinating medley of history, mythology, physiology, medicine, psychology, philosophy, and charm. The author had no professional connection with cookery, but brought to the task of writing his book a cultured mind and the supreme gift of being able to treat his subject with exactly the right blend of seriousness or levity. He recognises the importance of eating habits in relation to health, and is careful to emphasise that good living by no means implies gluttony. Brillat-Savarin's remarks on the prevention or cure of corpulence have quite a modern ring. He deprecates such heroic measures as drinking vinegar to prevent obesity. Even occasional beauty hints are contained in this charming book, of which the following may serve as an example: the author asserts that "a succulent, delicate, and choice regimen" is of value in keeping "the external appearances of age" at bay. In addition to imparting brilliance to the eye and freshness to the skin, it gives "more support to the muscles; and, as it is certain in physiology that wrinkles, those formidable enemies of beauty, are caused by the depression of muscle, it is equally true that, other things being equal, those who understand eating are comparatively four years younger than those ignorant of that science." Brillat-Savarin's views on champagne are worthy of mention because they show his powers of observation and because they concern the illustrious Jean Nicolas Baron Corvisart, Napoleon's favourite physician. The two were dining together when Brillat-Savarin noticed that the physician, who drank nothing but iced champagne with the courses, was talkative and amusing in the beginning, but grew serious, low-spirited, and taciturn with the dessert. From that observation, confirmed by many others, he concluded: "Champagne, though at first exhilarating, ultimately produces stupefying effects; a result, moreover, which is a well-known characteristic of the carbonic acid which it contains."

# PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

## Monthly Meeting of Council

AT a meeting of the Council of the Pharmaceutical Society of Northern Ireland, held in Belfast, recently, THE VICE-PRESIDENT (Mr. H. P. Crossin) referred to the death of Mr. J. Carroll Culbert (a founder member of the Council). Mr. Crossin said that all appreciated deeply the work accomplished by Mr. Culbert in public and professional life. Mr. Crossin, as one of the older members of the trade, remembered him for the effort he put into the advancement of the profession. The secretary was instructed to forward a letter of sympathy to the relatives.

The Council approved a recommendation of the Education Committee granting the certificate of apprenticeship to William Joseph McKeag, Holywood. Approval was also given to the report of the Finance Committee.

THE SECRETARY reported that Professor J. Small's absence from Council meetings was because of illness. The secretary was requested to forward the Council's good wishes for a speedy recovery.

Questions were asked on the production of the new poisons guide for Northern Ireland and when it would be published. THE SECRETARY said that he would inquire how the work of revision was proceeding and report. MR. H. W. GAMBLE, O.B.E., said that it would be some years before the book was changed again and he thought that the Council should consider bringing the whole guide up to date and republishing. MR. CROSSIN commented that there was a lot to be said for an entirely new book.

The secretary and the vice-president were authorised to make inquiries regarding the appointment of examiners for the June examinations.

THE SECRETARY told the meeting that he had now received from the Ministry of Home Affairs a copy of the Order amending the third schedule of the Medicines, Pharmacy and Poisons Act (Northern Ireland), 1925, by adding to Part 1 of the Schedule, "laudexium; its salts" and to Part 2, "sulphotepp."

# THE THERAPEUTIC DENTIFRICE

By R. Levin, F.P.S. (chief pharmacist, research and development division, Distillers Co. (Biochemicals), Ltd.)

By definition, the term therapeutic dentifrice should be applied to a preparation for use in the relief or treatment of diseases of the teeth. In fact it is commonly applied in the sense of presenting a prophylactic agent whose effect is to prevent the development of one or more of those diseases; it is in the latter sense that it will be applied here.

## *Early Branded Products*

The conception of a therapeutic dentifrice has exercised the minds of dental research workers for many years. At the beginning of the present century a number of dentifrices claiming disease-preventing activity were introduced. They were given brand names based on their supposed active ingredients, and in that way two proprietary brands that are still popular today were born. The first then contained pepsin in the belief that that agent was effective in dissolving or digesting the plaque which normally surrounds the tooth surface and supports the growth of acid-producing organisms, whilst the second contained ipecacuanha, specific against *Endamoeba bucalitis*, then thought to be responsible for periodontal disease. The light of experience has not been kind to those suppositions, and as a consequence both substances were subsequently withdrawn from their respective formulations.

According to Manly[1], products designed to inhibit dental caries are proposed at the rate of about a hundred a year. The appraisal of a therapeutic dentifrice is a difficult procedure involving extensive and painstaking studies carried out under carefully controlled conditions. Unfortunately that has not always been true of some of the products so far presented to the public, as a result of which early hopes have not always been supported by subsequent research, and potentially valuable agents have received an untimely rebuff.

The assessment of those agents usually follows a routine procedure, wherein they receive a " test-tube " test treatment in the laboratory which, if promising, is followed by controlled animal brushing experiments. Final confirmation is sought in extensive field studies.

Typical of the preliminary " test-tube " methods of assessment is the saliva-glucose test, wherein the *p*H of the saliva is measured both before and at intervals after brushing the teeth with a test preparation, following rinsing with a glucose solution. In that test a diminution of the normal *p*H reduction is taken to be indicative of protective action. An alternative procedure is to measure the amount of calcium that can be dissolved from the tooth enamel by the acid produced from the conversion of glucose to lactic acid. Other tests more closely approach the conditions which obtain in the mouth, and they and other laboratory methods have been critically examined by Manly[1], who has assessed their significance when applied to field conditions.

Whilst several dental diseases present targets for the therapeutic dentifrice, they are more generally designed to be effective against the widely spread caries and periodontal (gingival) diseases. Numerous hypotheses have been proposed to explain the development of dental caries, the one receiving the most support being that which involves the rapid formation of acid under the influence of bacterial-enzymes from the fermentable carbohydrates that cling to the tooth surface. The disease is characterised by decalcification of the inorganic portion of the tooth accompanied by disintegration of the organic matrix.

Periodontal disease is identified by inflammation of the gum margin, loosening of the teeth, and shrinking of the gums. Bacteria play a secondary rôle by accelerating and complicating the initial lesions.

To prevent the development of dental caries, the active substance must become attached to the tooth surface or be present in its immediate environment. Its action would be to block the formation of acid, which it may do in one or more ways, for example by inhibiting the growth of the responsible organism; or by interfering with the biochemical process wherein the bacteria effect a degradation of the carbohydrates, or alternatively by rendering the conditions of the mouth such as not to support the growth of the bacteria and/or the biochemical reaction.

Several of the agents proposed for use in therapeutic dentifrice have received fairly extensive examination and some enjoy the qualified support of eminent dental research workers. It is the purpose of this article to consider the present status of those agents.

## *Antibiotics*

Zander[2] stated that the two major dental diseases caries and periodontal disease are bacterial, and that the responsible organisms are susceptible to certain antibiotics. In 1946 McLure and Hewitt[3] found that, when a group of rats received penicillin in their feed for 125 days, they had no caries lesions, whilst 50 per cent. of a control group receiving no penicillin showed lesions. The authors concluded that their work had suggested a possible response of human dental caries to penicillin. Subsequent attempts to confirm those findings were not always successful, a result that may be attributable to the various conditions under which the tests were carried out. Other antibiotics have been tested for activity in inhibiting caries, but penicillin invariably showed the greatest effect, followed by bacitracin, chlortetracycline, chloramphenicol and streptomycin. Fosdick[4] found that chlortetracycline, oxytetracycline and subtilin were retained on the dental plaque for several hours, whilst penicillin was retained for twelve to twenty-four hours.

Several clinical studies on penicillin have been reported some of which showed a reduction in caries whilst others found no reduction. Zander[2] believes that the conflicting reports are accounted for by the penetrability and type of penicillin used in the trials. The Council on Dental Therapeutics of the American Dental Association has concluded that the evidence on penicillin is as yet too limited for a proper evaluation. Because of the importance of possible side-reactions to an indiscriminate use of penicillin dentifrice, that aspect was investigated by Walpole[5] and Hill[6], who found that sensitivity reactions were infrequent and not serious enough to cause concern.

The problem of the development in the mouth of penicillin-resistant strains of organism has also received attention. Studies have shown that groups using penicillin dentifrices had more streptococci resistant to higher concentrations of penicillin than controls who did not use penicillin. The degree of resistance, however, did not appear to be such as would prevent the treatment of those organisms with penicillin should they become pathogenic.

In the United States, penicillin dentifrice is sold on prescription primarily for the treatment of rampant caries. To that extent, it may be said of penicillin dentifrice that it fulfils the true definition of a therapeutic dentifrice.

## *Dibasic Ammonium Phosphate and Urea*

It has long been known that some fortunate individuals have a natural resistance to dental caries. With a view to isolating a common factor to account for that resistance, some of those persons have been subjected to examination. It was first found that *Lactobacillus acidophilus* was missing from their oral flora, and saliva collected from their mouths was subsequently found to inhibit the growth of the organism. Analysis of the saliva showed the presence of ammonia, and it was subsequently demonstrated that the lactobacillus-inhibiting power was related to the concentration of

ammonia; when the urea was present the inhibition was enhanced.

The results of those studies led to the formulation of a powdered dentifrice containing dibasic ammonium phosphate and urea. Clinical studies on the use of ammoniated dentifrices were at first encouraging, but subsequent workers did not always confirm the beneficial effects. Counts made on the lactobacillus density in saliva before and at intervals after brushing with ammoniated dentifrices showed that they were more effective than ordinary tooth-paste in controlling the concentration of organisms. Kesel and others[7], have reported a similar experiment. They concluded that a single brushing of the teeth with a powder containing various proportions of dibasic ammonium phosphate and urea results in a decrease, lasting for 140 minutes, in the number of lactobacilli in the saliva. They concluded that a natural mechanism exists which resists caries and in which both ammonia and urea are factors.

It can thus be shown, both *in vitro* and *in vivo,* that ammoniated dentifrices have an inhibiting effect on *Lactobacillus acidophilus.* Whether that property is synonymous with the prevention of the development of caries still remains a matter for conjecture. The problem will be cleared up only in the light of further extensive clinical studies.

## *Chlorophyll Derivatives*

Interest in the use of chlorophyll for the prevention of tooth decay was aroused by reports that various chlorophyll derivatives had a bacteriostatic effect against certain oral bacteria, and that they had been shown to decrease acid production in the saliva-glucose test. Subsequent tests of their ability to reduce lactobacillus counts produced conflicting results, as did the limited human clinical trials. Hein[8] has suggested that the contradictory results are accounted for largely by the considerable constitutional differences that exist betweeen the different types of chlorophyll available.

The value of chlorophyll in the treatment of gingival disease has also been examined. Four extensive trials have been reported, one of which found chlorophyll to be effective, the other three finding little or no improvement in the gingival health of the individuals tested. Chlorophyll is at present established on the market by virtue of its deodorising properties. It can be shown that, when proper concentrations of effective samples of chlorophyll are used, they have a marked deodorising effect against many of the odoriferous agents that may be found present in the mouth. Whether chlorophyll has a place in the prevention of dental disease is still unknown, and the question will not be properly resolved until the results of further clinical experiment become known. Meanwhile the compound may be expected to maintain a demand in the market if only by virtue of its established deodorising properties.

## *Enzyme-inhibiting Agents*

Reference has already been made to the effectiveness of penicillin in inhibiting the growth of the organisms that play a part in the development of dental caries. The action of the penicillin in this respect is to interfere with the metabolic processes of the organism, that is, to inhibit the function of its enzymes. Other substances are known to act as enzyme inhibitors, including chlortetracycline, oxytetracycline, subtilin, sodium N-lauroyl sarcosinate, sodium N-myristoyl sarcosinate, sodium dehydroacetate, and two quaternary ammonium compounds: (1-phenyl-1-decyl)-cinnamyl-dimethyl ammonium chloride and 1-phenyl dodecyl-benzyl-dimethyl ammonium chloride. Of those only penicillin, sodium N-lauroyl sarcosinate and sodium dehydroacetate have been evaluated[9]. No harmful effects have been reported in these tests, which show that sodium N-lauroyl sarcosinate and sodium dehydroacetate, and particularly the former, are capable of maintaining reduced acid formation in the mouth. Those substances become attached to the surface of the tooth and resist rinsing to remove them. Large-scale clinical trials on them and other enzyme-inhibiting agents are in progress, and the results are awaited with interest.

Some United States dentifrice manufacturers, anxious to stimulate the sale of their products, have already introduced anti-enzyme products to the public, to the accompaniment of generous claims for their effectiveness. The American Dental Association took exception to this move, and in January 1954 its council unanimously passed a resolution declaring that it had reviewed the information on anti-enzyme dentifrice and had found no satisfactory evidence of their effectiveness against tooth decay.

With enzyme inhibitors as with antibiotics, ammonia and chlorophyll, the true value of the substances is still unknown, and final judgment must await the outcome of patient and comprehensively contrived clinical studies.

It has been the writer's purpose to review the present status of several of the agents proposed for the preventing of dental disease, but the picture is not sufficiently clear on any one of them for proper conclusions to be drawn. The situation of doubt is emphasised in a memorandum on the dental health of children drawn up by the Child Dental Health Committee of the British Dental Association[10], which states that the value of penicillin in caries prevention had not been indisputably established. The memorandum goes on to say that, whilst anti-enzymes have not as yet been proven, they may lead to important applications in the prevention of caries. Ammoniated dentifrices received qualified approval in the memorandum, which said that, since ammonia was capable of both reducing the hydrogen-ion concentration of the saliva and of dissolving mucin from the dental plaque, it thereby lessened susceptibility to caries.

The use of a therapeutic dentifrice implies the application of a substance to the teeth in order to help them resist the development of disease. The substance must be harmless and should be capable of adhering to the site for the period ensuing between successive applications. The achievement of those ends will be no mean task. A great deal of interest in this problem exists throughout the world, and the quality of the work already done provides grounds for confident expectation that final success in the task will eventually be achieved.


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*A PHARMACIST'S ANTHOLOGY*

## MELANCHOLY CHOLER

From Coghill's translation of the *Nun's Priest's Tale* from Chaucer's *Canterbury Tales*

*"Now, sir," she said, "On flying from these beams,*
*For love of God do take some laxative;*
*Upon my soul that's the advice to give*
*For melancholy choler; let me urge*
*You free yourself from vapours with a purge.*
*And that you may have no excuse to tarry*
*By saying this town has no apothecary,*
*I shall myself instruct you and prescribe*
*Herbs that will cure all vapours of the tribe . . .*
*Worms for a day or two I'll have to give*
*As a digestive, then your laxative.*
*Centaury, fumitory, caper-spurge*
*And hellebore will make a splendid purge;*
*And then there's laurel or the blackthorn berry,*
*Ground-ivy too that makes our yard so merry;*
*Peck them right up, my dear, and swallow whole.*

*An early biochemist and the physician who first described "Parkinson's disease"*

# JAMES PARKINSON (1755-1824)

By Laurence Dopson

BORN in Shoreditch, London, on April 11, 1755, James Parkinson has more than one claim to fame. He described the disease that now bears his name. In an age before the scientific basis of medicine was firmly established, he added a thirty-page section on biochemistry ("Animal Substances") to his *Chemical Pocket-book*. He was involved in a charge of treason against a chemist's journeyman. And he wrote standard textbooks on fossils. Parkinson's whole life was associated with Shoreditch. He was baptised at St. Leonard's Church, was married there twenty-six years later, and was buried in the churchyard in 1824. He succeeded his father in general medical practice and for most of his life he lived at No. 1 Hoxton Square. Parkinson was always a writer. In the early part of the 19th century Parkinson attacked the methods of medical education:—

"The first four or five years are almost entirely appropriated to the compounding of medicines; the art of which, with the habit of necessary exactness, might be just as well obtained in as many months."

## *An Advanced Thinker*

In the years of the French revolution he was active in the London Corresponding Society, a group of advanced thinkers who wanted universal suffrage. He denied that they were a treasonable body, but it was political associations that involved him in the "pop-gun plot" to assassinate George III in the theatre by means of a poisoned dart (the plot derived its name from a hostelry in Portsmouth Street, Lincoln's Inn Fields). When, on September 27, 1794, George Higgins, warehouseman at the shop of Barclay & Co., druggists, 95 Fleet Market, was seized by three Bow Street runners, *The Times* commented: "A watchcase-maker's apprentice and a chymist's journeyman could not conceive the execution of such a diabolical plan," and Parkinson was summoned to give evidence before the Privy Council. He at once challenged the legality of the proceedings. "My lords, my legal knowledge is but very trifling," said Parkinson. "It chiefly consists in knowing what was crime a few years ago." Eventually the prisoners were released. Parkinson published the transcript of his examinations.

For a number of pamphlets Parkinson used the pseudonym "Old Hubert." Among the proposals in the twenty-four points of his *Revolutions without Bloodshed; or, Reformation preferable to Revolt,* which Parkinson published at one penny a copy "for the benefit of the wives and children of persons imprisoned on charges of High Treason" (that is the chemist's journeyman and his companion), were that "due *PROVISION* be made for the *aged* and *disabled*."

His outburst of political activity was followed by a return to the quieter realms of scientific writing. The first edition of his *Chemical Pocket-book* appeared in 1800. "The following assemblage of chemical facts was formed," he wrote, "with the hope of rendering it an agreeable pocket companion for the lovers of Chemistry in general; and more particularly so for those who may be just engaging in the study of this most useful and interesting science." A second edition appeared the following year and further editions in 1803 and subsequent years. Also in 1800 Parkinson published his observations on medical education in *The Hospital Pupil; or, an essay intended to facilitate the study of Medicine and Surgery.* "A young man who is placed behind the counter of an apothecary for seven years, and receives his hospital education in the manner I have described, must be robbed of his fair chance of becoming proficient in his profession," he declared, holding that apprenticeship was not desirable, except to a hospital—another instance of his advanced thinking.

There was hardly a subject that did not come under the review of Parkinson's pen. *Hints for Improvement of Trusses* came in 1802, and in 1811 his pamphlet on madhouses was noticed in the *Edinburgh Review*. Parkinson's contributions to popular medicine were widely read. *The Villager's Friend and Physician* (1800) was followed by *Medical Admonitions to Families,* of which the *Critical Review* wrote: "We can safely recommend this Work to parents and others, particularly to those clergymen whose parishioners are at some distance from medical assistance." *Dangerous Sports, a Tale Addressed to Children* (1800) ran to more than one edition. Parkinson also wrote *Observations on the Excessive Indulgence of Children* (1807).

But it is, of course, his description of paralysis agitans on which Parkinson's posthumous fame principally rests. *An Essay on the Shaking Palsy* (1817) is remarkable as an example of concisely written observation, the product of several years' clinical research. Six cases are described. Two of them were not Parkinson's patients but persons "casually met with in the street." That major work of Parkinson's life was not written until he was sixty-two years of age and he died at the age of sixty-nine.

*BRITISH FINE CHEMICALS AND THEIR USES*

## 32. POTASH ALUM

POTASH alum is supplied in different forms as the British Pharmaceutical standard and as commercial crystal or powder. It represents the most widely used alum, whereas the sodium, ammonium, iron, and chrome alums, are utilised to a lesser extent generally. For many years more alums were prepared in Great Britain than any other country in the world.

Crude aluminium and iron sulphates are first obtained from pyritic shales, bauxite, and other aluminiferous-bearing materials, from which the aluminium sulphate is crystallised out. By adding a solution of potassium sulphate, the double salt is separated and purified by repeated crystallisation. In both pure and commercial varieties, potash alum enjoys a wide range of industrial uses. Medicinally, it has numerous well-known uses. Potash alum was for long one of the most important reagents used in paper making, but is today largely replaced by the cheaper aluminium sulphate. It is still employed, however, for colour fixation, for froth prevention and as a hardening agent. It is used in the paint industry in different capacities, in the leather and tanning trades, by taxidermists, and in water purification systems.

Potash alum was an important reagent in waterproofing textiles, but has been superseded largely by newer chemicals. It is employed in the manufacture of a number of different ink compositions, and by the process engraving and lithographic trades. In photography, it is used in various fixing, hardening, clearing, and stain removing baths, although chrome alums, and other alums have also been substituted for combined hardening-fixing baths. Potash alum is also used in the baking and confectionery trades, in the manufacture of margarine, and in sugar refining. It is also used in the match-making trade. The re-crystallised salt is generally free from impurities.

# MAN-POWER, TRAINING AND EDUCATION

## 3. ACADEMIC VIEWS AND PHARMACY AS PRACTISED

By Dominie

IN an article on October 9, 1954 (p. 375), the present writer deprecated the wide divergencies of attitude towards education and of appreciation of present-day conditions in the profession that exists between some pharmacy teachers and practising pharmacists. Although he has been a pharmacy teacher for many years, recent vacational experience as a practising pharmacist has satisfied him that many of the critics of pharmaceutical education and its results are ventilating legitimate grievances and justifiable complaints. Existing regulations, syllabuses and examinations may produce a pharmacist who is lamentably inadequate in immediate practical value in a pharmacy. Whatever criticisms may be made of the Pharmaceutical Society, the integrity of the Council and its genuine desire to elevate educational and professional status are generally conceded. *Laissez-faire* of the late Victorian and Edwardian eras seems to have prevailed in the Council until the early 1920's. In that period there came a renaissance of the vigour and vision of Jacob Bell and his contemporaries, whose far-sighted enterprise led to the foundation of the Society. Latent authority given by the Poisons and Pharmacy Act, 1908, was implemented. Inspired largely by the far-sighted imagination of E. Saville Peck, the Council made profound changes in educational regulations and syllabuses. In those years large numbers of ex-Service men were awaiting training. Local education authorities throughout the country were persuaded to co-operate by establishing schools of pharmacy in the technical colleges. The system of inspection and approval began, and with it was sounded the death knell of the private "cram" schools. But the traditional craft training still persisted in the three-, four- or even five-year apprenticeships that were served before the full-time college course (or sometimes concurrently with a part-time course).

In the late twenties the University of London created a Bachelor of Pharmacy degree open to internal students of the Society's school and to external students in certain of the approved colleges. About the same time radical changes were made in the regulations and syllabuses for the Ph.C. examination, which under the title of the "Major" had, since 1868, been an optional higher qualification that could be taken *after* passing the "C. and D." or "Minor." It became an alternative route to qualification, which could bypass the Chemist and Druggist examination. The first step in the devaluation of practical training was taken by the regulation that accepted a 2,000 hours' apprenticeship served *after* passing the Ph.C. examination, while the Chemist and Druggist candidate was required to serve 4,000 hours *before* entry. Registration via the B.Pharm. degree (plus an examination in forensic pharmacy and a 2,000-hour apprenticeship) established the precedent that the Society was prepared, in part at any rate, to surrender its statutory authority to conduct qualifying examinations to external bodies.

Development in pharmaceutical education in the decade preceding the 1939–45 war could be cited as an example of "the inevitability of gradualness." Step by step, the standards for the entrance examination were raised. Approval for part-time courses of study was withdrawn. The requirement that apprenticeship should be served on approved premises was extended to include retail pharmacies as well as manufacturing laboratories and hospital pharmacy departments. Syllabuses were modernised by replacement of botany by biology, and the introduction of physiology. Changes in medical practice were matched by curtailment of pharmacognosy; and increasing emphasis was laid on sterilisation and aseptic technique and on synthetic drugs. The syllabuses for the Ph.C. and the B.Pharm. courses were identical, and approved colleges held combined courses. *The Chemist and Druggist Qualifying, however, was still the examination of choice of the majority who intended to make a career in retail.*

Two post-war measures of social legislation came to exert profound influences on pharmaceutical education. The Education Act of 1944 postulated, for all with the ability to profit by it, higher education at college or university, irrespective of parental means. Provision was also made for maintenance. Alteration in the structure of the school leaving certificate was effected, and the name changed to General Certificate of Education, which at Advanced or Higher Level could secure exemption from university Intermediate examinations. Teaching to that level of pupils, of eighteen years of age upwards, was intended to be carried out mainly at grammar or secondary modern schools. Degrees in pharmacy were instituted in more of the universities, and the Society accepted them—supplemented by forensic pharmacy and apprenticeship—for Ph.C. registration. At that period many pharmacy teachers sensed that the Council was moving towards qualification by the degree route, and that the Society would ultimately cease to function as an examining body while retaining custodian rights over the statutory register. Development might well have continued on that course but for the impact on all branches of pharmacy of the National Health Service Act of 1946. It is possible that the Society underestimated the extent of the increased man-power demand that that was to make. Be that as it may, it was soon evident that intake would have to be stepped up. There could be no question, however, of lowering educational requirements if the pharmacist's status and remuneration were to be maintained. The shorter course for the Chemist and Druggist examination was abandoned. There seems no prospect in the foreseeable future that the universities can, unaided by the technical colleges, turn out pharmacy graduates in sufficient numbers to meet the man-power demand for pharmaceutical chemists.

The course of educational evolution, and the factors contributing to the present man-power situation here surveyed, provide a background to certain recommendations that may merit consideration by pharmacists, pharmacy teachers and planners of future policies of training and education.

# NEW BOOK

**Oxine and its Derivatives**

R. G. W. HOLLINGSHEAD, M.A. (OXON.). *Butterworths Scientific Publications*, 88 Kingsway, London, W.C.2. 10 x 6¼ in. Vol. I pp. 322. Vol. II pp. 616. 42s. per volume (by post 2s. each extra).

Two volumes, both dealing with oxine, have appeared out of three projected (the third, when ready, will deal with the derivatives). The trilogy is intended as a reference work on 8-hydroxyquinoline and its derivatives, and therefore includes all pertinent information relating to its preparation, properties and uses. The material has been assessed and classified so as to make it readily available to users of the book.

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# PHARMACEUTICAL SOCIETY OF IRELAND

## Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society of Ireland was held in Dublin on April 12, Mr. M. Costello (president) in the chair. Other members of Council present were Messrs. P. F. McGrath (vice-president), H. P. Corrigan (treasurer), T. C. Scott, C. J. Cremen, F. Loughman, F. J. Robinson, J. J. O'Regan, J. A. O'Rourke, D. J. Kennelly, T. B. O'Sullivan, P. A. Brady, M. Power and J. Gleeson. Apologies for absence were received from Messrs. N. A. P. McKane, E. J. MacSweeny, G. C. O'Neill and A. A. Toher.

Before proceeding to the business on the agenda THE PRESIDENT said that he would like to express on behalf of the Council, every pharmacist and himself, their deep sympathy with the wife and relatives of the late Mr. James J. Kerr who had, for a number of years, filled the office of registrar of the Society (see *C. & D.*, April 9, p. 388). It was sad to have to record the loss of a man who had given so much of his life to official pharmacy and who had always had the courage of his convictions. The vote was passed, the members standing in silence as a mark of respect.

Arising out of the minutes of the March meeting (see *C. & D.*, March 19, p. 323) THE REGISTRAR (Mr. James G. Coleman) said that he had been in touch with the Department of Health about the recognition of the qualification of dispensing chemist and druggist by the Local Appointments Commission. He had been informed that the Minister would make an Order to enable the Commission to accept applications from members of that new grade.

Dr. Joan Noreen McMahon, 1 Convent Road, Blackrock, co. Dublin, who submitted an L.A.H. certificate was granted registration as a pharmaceutical chemist

The reports of the House, Law, Schools and Certificates Committees were submitted and approved. It was reported that sixty-two candidates had entered for Part I, and sixty-four for Part II, of the Licence examination. Four candidates had entered for the Assistants' examination.

### *Concern Over Press Report*

When the Pharmacy Bill Committee report had been submitted and approved, THE PRESIDENT expressed concern over the announcement that had appeared in the previous day's newspapers of a proposed Pharmacy Act. That announcement, said Mr. Costello, was most embarrassing in view of the negotiations proceeding between the Minister for Health and the Pharmaceutical Society. In dealing with the Minister, the Council had acted as spokesmen for pharmacy; those published statements gave the opposite impression. An organisation with any sense of responsibility would have acquainted the Council officially of its existence and aims. Instead, individual members of that organisation seemed anxious to suggest that they, rather than the Council, were negotiating for a new Pharmacy Bill. It would be recalled that a document had been sent out to members and associates informing them that the Minister for Health had intimated that he was willing to introduce amending pharmacy legislation. That document had been marked "To each member and associate: private and confidential." Despite that cautionary heading, a body (which might seem a responsible body to a layman or to a Minister) had released information which had appeared under bold headlines in the papers, and had claimed that individual members of the Dail who had not yet been consulted by the Minister had been approached by members of that chemists' representative organisation. The best way out was to ring the Department and inform the Minister's secretary that the disclosure was no fault of the Council's and that the publication resulted from a breach of confidence. MR. O'ROURKE said that it was possible that the newspaper report might not have been accurate. MR. CREMEN said that the caption "pharmacists seeking a new Act" was sufficiently accurate to cause the Council grave embarrassment. He advocated an approach to the Department, disclaiming responsibility. MESSRS. POWER and GLEESON supported Mr. Cremen's proposal. After further discussion is was agreed (a) to inform the Department of Health of the circumstances leading to the publication of the information, and (b) to invite the persons named in the newspaper to meet members of the Council so that they could be advised against future impetuous action.

The deaths were reported of Ian Alexander Clarke, L.P.S.I., James Galashan, L.P.S.I., and Anne Jane Fitzgerald, L.P.S.I.

MR. MCGRATH said that he would like to remind members that county council elections were being held in the near future and that pharmacists should participate in them. He was concerned because of the part chemists could play in the advisory committees set up by county councils under the Health Acts. It was intended to write to key men in every district.

The recent High Court judgment (see *C. & D.*, April 9, p. 387) was discussed in committee following which THE PRESIDENT announced that the Society's law adviser had been instructed to apply for a copy of the judgment and to seek counsel's opinion regarding an appeal to the Supreme Court. The Council would call a general meeting when all the facts were available.

MR. POWER drew attention to an announcement that the Department of Agriculture had sanctioned the distribution of Aurofac through the pharmaceutical chemist conditional on its supply against veterinary surgeons' prescriptions. Mr. Power described as "preposterous" the manner in which the pharmacist's statutory functions were being whittled down. MR. LOUGHMAN said the restriction of products in that manner was the "greatest nonsense." He had on a previous occasion contended that a farmer was entitled to treat his own animals, provided he did not inflict cruelty upon them. He urged that the Society should contact the Department and remind the officials that they had promised to consult the Council in connection with any compounding or dispensing of prescriptions. It was agreed that an interview should be sought with officials of the Department.

The following were elected members of the Society:—Thomas Godfrey, Richard Kelly, John A. McGahan and Patrick A. Stanley.

The following were nominated for membership:—Miss Patricia Burke, The Knocks, Naas, co. Kildare; Robert Costigan, 52 Main Street, Tipperary; Patrick Anthony Barry, 4 La Touche Road, Inchicore, Dublin; and Mrs. Monica O'Riordan, 2 Botanic Road, Glasnevin, Dublin.

At a meeting of the Benevolent Fund Committee held at the close of the Council meeting a number of grants were passed for payment.

The following changes of address were notified:—William W. Gannon, M.P.S.I., to 46 Belmont Avenue, Donnybrook, Dublin; Leo Vincent McKeever, M.P.S.I., to 33 Seafield Crescent, Stillorgan, Dublin; William James Fegan, L.P.S.I., to c/o T.A.M.D.G., Royal Naval Medical Depôt, Victoria Victualling Yard, Deptford, London, S.E.8; Patrick Anthony Barry, L.P.S.I., to 4 La Touche Road, Inchicore, Dublin; and Mrs. Mary E. O'Dea, L.P.S.I., to 5 Cardiffsbridge Road, Finglas West, Dublin.

## INFORMATION WANTED

*The Editor would appreciate information about suppliers of the following items:*

WHITWORTHS FIGGEROLS
METACORTONE
ANDRAMINE
AMBROSOLAIRE

# TRADE REPORT

**The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.**

LONDON, APRIL 20: Business in all markets was of a routine nature during the week and limited to small replacement lots. Buyers on home account appeared to be awaiting the Budget announcement before entering fresh commitments. Several CRUDE DRUGS maintained and even developed their firm tone despite the quiet trading conditions.

Further gains were made by the GINGERS with quotations for spot African up by 25s. a cwt. and the Jamaican by 15s. a cwt. compared with two weeks ago. Cape ALOES continued short on the spot, but some business was done in prime for shipment at 287s. 6d. a cwt., c.i.f. The firm tendency of BUCHU noted in last week's report appears to have become established since offers from origin were somewhat scarce. There was an easier tendency in GUM ACACIA, but KARAYA is now quoted 30s. a cwt. higher for the No. 1 variety. Licences are being granted for the import of HONEY from the Argentine and material from that country is now being offered for June delivery. Jamaican new-crop is also expected to arrive at about the same time. Meanwhile Australian prices on the spot are not expected to become any easier until more material is available. CINNAMON for shipment was twopence per lb. dearer throughout. CARDAMOM SEED was quoted ninepence per lb. higher and the spot price for Chinese Star ANISEED at 160s. per cwt. (in bond) was up by 10s. a cwt. The United Kingdom imported 6,327 packages (of two Calcutta maunds) of Indian SHELLAC during March out of a total of 20,085 packages shipped from India. The United States bought 2,921 and Europe 4,301 packages.

There were no changes in the prices of PHARMACEUTICALS and FINE CHEMICALS during the past week.

In ESSENTIAL OILS such price changes as occurred were mainly in a downward direction. Formosan CITRONELLA at 12s. 3d. per lb. was down by threepence. Madagascar CLOVE LEAF was one shilling lower per lb. while Penang PATCHOULI at 58s. 6d., duty paid, and Chinese PEPPERMINT at 41s. were both down sixpence. Higher per lb. were Mysore SANDALWOOD (by 2s. 6d.) and LEMONGRASS (by sixpence).

## Pharmaceutical Chemicals

ACETIC ANHYDRIDE. — Rates (per ton) delivered U.K., in returnable drums, range from £121 for 10 tons to £126 for single 90-gall. drum lots.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 68s.

EMETINE.—Price for 32-oz. lots of the HYDROCHLORIDE is 250s. per oz. The BISMUTH IODIDE is 125s. per oz.

FERROUS GLUCONATE.—B.P.C. is 6s. 6d. per lb. in 1-cwt. lots.

HYPOPHOSPHITES. — Prices per lb. are unchanged as follows:—

| SALT | 7 lb. | | 28 lb. | | 1 cwt. | |
|---|---|---|---|---|---|---|
| | s. | d. | s. | d. | s. | d. |
| AMMONIUM ... | 12 | 10 | 12 | 5 | 12 | 0 |
| BARIUM ... ... | 7 | 10 | 7 | 5 | 7 | 0 |
| CALCIUM ... | 5 | 11 | 5 | 6 | 5 | 1 |
| IRON ... ... | 12 | 1 | 11 | 8 | 11 | 3 |
| MAGNESIUM ... | 9 | 4 | 8 | 11 | 8 | 6 |
| MANGANESE ... | 12 | 4 | 11 | 11 | 11 | 6 |
| POTASSIUM ... | 7 | 11 | 7 | 6 | 7 | 1 |
| SODIUM ... ... | 6 | 7 | 6 | 2 | 5 | 9 |

EPHEDRINE.—In 100-oz. lots ALKALOID is 7s. per oz.; HYDROCHLORIDE and SULPHATE, 4s. 3d. per oz.

ERGOMETRINE.—For 20-gm. lots the price of the MALEATE, B.P., is £27 10s. per gm., and the TARTRATE, £25 10s. per gm.

LACTOSE.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £137 per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 150s. per cwt. for 5-cwt. lots and 124s. per cwt. for 1-ton lots.

MAGNESIUM OXIDE, B.P. — Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 4d. per lb. for minimum 1-ton lots.

MAGNESIUM PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

METOL. — In 1-cwt. lots the price is 24s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 27s.; 7-lb., 28s.

OLEIC ACID. — Price for B.P. is about 153s. per cwt.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—CODEINE.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2,063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.). ETHYLMORPHINE.—Alkaloid, 63s. per oz. (2,222s. per kilo); hydrochloride, 53s. 9d. (1,896s.). MORPHINE. — Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1,773s.).

PAPAVERINE.—Synthetic HYDROCHLORIDE is from 355s. to 360s. per kilo. ALKALOID, 405s. to 415s.

PHENOBARBITONE. — 1-cwt. lots are 25s. 6d. per lb.; SODIUM is 6d. per lb. more than above rates.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 10s. 10d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 6d. per lb.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

RESORCINOL. — 1-cwt. lots are now quoted at 13s. per lb. by manufacturer.

SALICYLAMIDE. — Price (per lb.) for 1-cwt. lots is 8s. 6d.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

SODIUM CARBONATE.—B.P. exsiccated is 60s. 6d. per cwt.

SODIUM SALICYLATE.—Rates are:—1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s. 5½d.; 1-cwt., 3s. 6d.

SODIUM SULPHATE.—Makers' prices for B.P. range from £10 10s. to £16 10s. per ton as to crystal and quantity.

STEARATES.—Prices for minimum 1-ton lots are as follows:—ALUMINIUM (all grades), 244s. 6d. per cwt.; CALCIUM (precipitated), 222s. 6d.; LEAD (30 per cent.), 229s. 6d.; LITHIUM (ordinary quality), 461s. 6d. MAGNESIUM (standard), 256s. and (superfine) 286s.; ZINC, B.P., 276s.

SULPHOCARBOLATES. — SODIUM PHENOLSULPHONATE, B.P.C. (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., is 5s. 6d.

SULPHUR. — B.P. PRECIPITATED is £105 per ton, or £110 per ton for 1-cwt. lots.

TANNIC ACID.—B.P. levis is 5s. per lb.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards as to quantity.

THEOPHYLLINE.—1-cwt. lots of ALKALOID are nominal at 29s. per lb. and AMINOPHYLLINE at 28s.

THYMOL.—Prices (per lb.) are 15s. 9d. for 28-lb. and 15s. 3d. for 1-cwt. lots.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 2d. per lb.; 28-lb., 1s. 5d.

## Crude Drugs

ANISEED (STAR).—Chinese is 160s. per cwt., in bond and 142s. 6d., c.i.f.

ALOES. — Prime Cape spot is 305s per cwt., nominal. For shipment, business done at 287s. 6d., c.i.f.

BALSAMS.—Quotations (per lb.) are:—*Canada:* spot offers are from 22s. 6d. to 25s. as to holder; no offers for shipment. *Copaiba,* B.P., 11s. 6d. *Peru* 11s. 6d., duty paid; forward delivery 10s., c.i.f. *Tolu* (genuine as imported) 26s. 6d. spot and 26s., c.i.f.; B.P., 17s. 6d. spot.

BELLADONNA. — Root testing 0·42 per cent. is offered at 2s. per lb. and LEAVES testing 0·514 per cent. at 3s.

BENZOIN.—Sumatra block on the spot is from £27 10s. to £32 per cwt.

BISMUTH METAL.—Minimum rate is 16s per lb.

BUCHU. — New-crop rounds afloat are quoted at 4s. 6d., c.i.f. Shipment a 3s. 9d., c.i.f.

CAPSICUMS.—East African on stalk are 150s. per cwt. spot. Abyssinian, off stalk 180s., spot, duty paid.

CARDAMOMS. — Aleppy greens on the spot are 13s. 6d. per lb.; shipment 11s. 9d., c.i.f. Seed is 17s. 3d., c.i.f., and 21s., spot.

CHERRY BARK. — Thin natural is from 1s. 8d. per lb., duty paid, and rossed 2s. 1d., on the spot.

CINNAMON.—Ceylon for shipment (c.i.f per lb.; OOOO, 5s. 5d.; OOO, 5s. 4d. OO, 5s. 3d.; O, 5s. 2d.; firsts, 3s. 7d. quillings, 2s. 3d.; chips, about 7d.

COCILLANA. — Value of bark is 2s. 9d per lb. on the spot.

COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

GINGER.—African is quoted on the spot at 240s. per cwt., and shipment at 230s c.i.f. Jamaican No. 3 is 335s. on the spot and 325s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts on the spot are quoted at 135s. per cwt and April–May shipment at 123s., c.i.f.

HENNA.—Indian is 105s. per cwt. for the green and 72s. 6d. for brown. No offers of Egyptian.

HONEY. — Australian light-amber is offered on the spot at from 110s. to 120s per cwt. and medium-amber, 100s. to 108s. June delivery of Argentine is quoted at 135s., ex store and Jamaican new-crop at 140s.

HYDRASTIS. — Root is 17s. 6d. per lb. on the spot.

IPECACUANHA. — Quiet. Limited spot offers of Colombian at 65s. per lb., and Nicaraguan at 70s. For shipment Matto Grosso and Colombian are quoted 64s. 6d. per lb., c.i.f.

KARAYA. — No. 1 gum on the spot is quoted at 355s. per cwt., and No. 2 at 300s.

KOLA NUTS. — African halves continue short on the spot at about 6d. per lb. Jamaican are offered at 7d.

LANOLIN. — In 1-ton lots the price of ANHYDROUS, B.P., is from 160s. to 165s. per cwt.; 5-cwt. lots from 162s. to 167s. per cwt. HYDROUS, B.P., is from 140s. to 142s. for similar quantities. All in drums, carriage paid, U.K.

LIQUORICE. — Quotations for Anatolian are 70s. per cwt.; Russian, 65s. and Persian, 45s., ex Liverpool. Block juice quotations are 220s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

MACE. — West Indian pale blade is 9s. 6d. per lb.; shipment, 8s. 10d., c.i.f.

MENTHOL.—Chinese is 59s. per lb., in bond and 58s. 6d., c.i.f. Brazilian is 57s., in bond.

MERCURY. — Nominal spot value is steady at £108 10s. to £109 per flask of 76-lb. ex-warehouse.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 3s. per lb. on the spot and 2s. 8d., c.i.f., for shipment.

PEPPER. — Lower. White Sarawak on spot is now offering at 4s. per lb. with afloat parcels, 3s. 7d. to 3s. 8d., c.i.f. Black Sarawak is 2s. 9¼d., spot; afloat, 2s. 7d. to 2s. 8d., c.i.f. Black Malabar is unchanged on spot at 355s. per cwt. but shipment has advanced to 337s. 6d. per cwt., c.i.f.

PIMENTO. — Spot is quoted at about 6s. 3d. per lb.

PODOPHYLLUM. — *Emodi* is quoted at 165s. per cwt., ex wharf. *Peltatum* is now 400s. on the spot.

QUASSIA. — Spot quotations for chips are at about 45s.; April–May shipment is about 32s. 6d. per cwt.

QUILLAIA. — Whole bark to arrive is offered at 220s. per cwt., landed terms.

RHUBARB. — Chinese is scarce on the spot. Quotations are from 7s. 9d. to 9s. 6d. per lb., duty paid, as to quality.

SAFFRON.—Mancha superior is 215s. per lb. Rio selecta about 212s. 6d.

SARSAPARILLA.—Jamaican native red on the spot is about 3s. 9d. per lb. For shipment the price is 3s. 6d., c.i.f.

SASSAFRAS BARK.—Selected is 6s. 3d. and natural, 4s. 3d. per lb. landed terms.

SEEDS.—(Per cwt.). ANISE. — Tunisian unchanged at 277s. 6d. spot, duty paid. CARAWAY. — Dutch offering at 167s. 6d. spot, duty paid. CELERY.—Indian is quiet with sellers at 145s. spot. CORIANDER.—Market unchanged. Spot, Morocco offering at 78s., duty paid (72s. 6d., in bond). Rumanian, 65s., duty paid. Because of holidays there was no news available from Morocco. CUMIN. — Small business reported. Spot Cyprian, 125s.; Morocco, 126s., duty paid. Shipment, Cyprian quoted at 110s., c.i.f. DILL.—Indian is easier with sellers quoting 80s., spot. FENNEL.—Indian remains firm. Sellers quoting 90s. to 92s. 6d., spot. FENUGREEK.—Morocco is now scarce on spot; 65s. quoted, duty paid. Lebanese quality offering at 62s. 6d., duty paid. MUSTARD.—English 67s. 6d. to 85s., according to quality.

SENEGA.—Spot offers are from 23s. 6d. to 25s. 6d. per lb., as to holder.

SENNA. — *Tinnevelly* LEAVES (per lb.), prime No. 1, 1s. 1½d.; No. 2 (dry crop), 9½d.; prime No. 3, 8d.; f.a.q., No. 3, 7d.; PODS, f.a.q., 7½d.; hand-picked, from 1s. 6½d. to 2s. 10d. as to quality, all on the spot. *Alexandrian* manufacturing pods, 2s. spot; small lots of hand-picked are about 7s.

SHELLAC.—Fine orange, 440s. to 480s. per cwt.; ex London warehouse.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb., landed.

STRAMONIUM. — Indian LEAVES are 75s. per cwt. and European 80s. on the spot.

STROPHANTHUS.—*Kombé* is 7s. and 9s. per lb. as to crop. *Gratus* is 14s.

STYRAX.—Spot is 5s. 7d. per lb.

TONKA BEANS.—Frosted Para are 6s. per lb. on the spot.

TRAGACANTH.—No. 1 ribbon is £160 to £165 per cwt.; No. 2, £125 to £130; No. 3, £110 to £115.

TURMERIC. — Rajapore is quoted at 200s. per cwt. on the spot. Madras finger (new-crop) afloat is quoted at 265s., c.i.f.; March–April shipment reported sold up to 145s., c.i.f. and April–May, 135s., c.i.f.

VANILLIN. — Rates (per lb.) are:— 5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

## Essential and Expressed Oils

ALMOND. — B.P. is from 6s. 6d. to 7s. 6d. per lb., as to quantity.

AMBER. — Rectified on the spot is quoted at from 1s. 6d. per lb.

BOIS DE ROSE.—Brazilian is 36s. per lb. on the spot and 35s., c.i.f.

CANANGA. — Supplies to come forward are quoted at from 55s. per lb., c.i.f. Spot is from 60s. 6d. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported oil at 32s. 6d. per lb.

CARDAMOM.—Price per lb. is from 360s. for English distilled and 295s. for imported.

CITRONELLA. — Ceylon is 7s. 2d. per lb. on the spot, 7s. 1d., c.i.f. Formosan is offered at 12s. 3d., all positions. Java is 12s. 6d., in bond, and 12s. 4½d., c.i.f.

CLOVE.—Madagascar leaf is 11s. per lb., duty paid and 8s. 6d., c.i.f., for shipment. Redistilled stem oil from 19s.; distilled bud oil, English, from 35s. to 40s.; imported, 18s. 6d. to 19s. 6d.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—Russian-seed oil is offered at from 100s. per lb.

CUBEB.—English distilled is 50s. per lb. and imported, 47s. 6d.

CUMIN. — Quotations for English-distilled oil are about 77s. 6d. per lb. and imported, 57s. 6d.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are scarce at 36s. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 6d. per lb.; 80 to 85 per cent., 6s. Spanish, 70 to 75 per cent., 5s., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GARLIC.—English is 55s. per oz.

GERANIUM.—Bourbon is 87s. 6d. per lb. on the spot and Algerian, 76s. 6d.

GINGER. — English-distilled oil is 160s. per lb. nominal, with cheaper grades down to 115s. Imported oils are available at from 135s. 6d. per lb.

GINGERGRASS.—Offers are from 35s. to 36s. per lb.

GRAPEFRUIT.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

HYDNOCARPUS. — Spot is offered at 2s. 2d. per lb.

JUNIPER BERRY. — Imported oils are offered from 16s. per lb., duty paid. English-distilled is now 155s.

LAVANDIN. — Spot is 18s. 3d. per lb. nominal.

LAVENDER. — Quiet. 38–40 per cent. linalol on the spot is 90s. per lb. 40–42 per cent., 100s., nominal.

LAVENDER SPIKE. — Spanish is from 13s. 6d. per lb.

LEMON. — B.P. (4 per cent. citral) on the spot is 35s. to 40s. per lb. Sicilian hand pressed, 45s. to 47s. 6d., spot; 44s., c.i.f. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Spot is quoted at 13s. per lb. and shipment at 12s. 9d., c.i.f.

NUTMEG. — English-distilled oil is 37s. 6d. per lb. Imported oil is 31s. per lb., duty paid for drum lots.

ORANGE.—Quotations include: Florida, 4s. 6d.; Californian, 6s. 2d.; West African, 11s. 6d. to 14s. For shipment, Californian sweet, 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f. subject to licence.

ORIGANUM.—In original containers the price is 13s. to 14s. per lb.

OTTO OF ROSE.—Spot offers are in the region of 425s. per oz. for genuine Bulgarian and 180s. per oz. for Anatolian.

PALMAROSA.—East Indian is 60s. per lb. on the spot and 57s. 6d., c.i.f. for shipment.

PATCHOULI.—Penang is 58s. 6d., duty paid, and 52s. 6d., c.i.f.

PENNYROYAL. — Spot is scarce with a nominal value of 17s. per lb.

PEPPERMINT. — *Arvensis :* Chinese is 41s. per lb. on the spot and c.i.f. Brazilian, 33s., spot, and 31s. 6d., c.i.f. (May–June). Italian "Mitcham" type oil is from 72s. 6d. to 80s., spot, and American 60s. to 65s.

PETITGRAIN. — Paraguay is quoted for shipment at 26s. per lb., c.i.f., and 28s. 6d., spot, in cases.

PIMENTO. — English-distilled berry is 165s. per lb. with imported at 67s. 6d. Rectified leaf (imported), 27s. 6d. per lb.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 11s.

ROSEMARY.—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

RUE.—Spot offers are from 14s. per lb.

SAGE. — Spanish is offered at from 9s. 3d. per lb. and Dalmatian at 50s., duty paid.

SANDALWOOD.—Mysore is 80s. per lb., East Indian, 77s. 6d.

SASSAFRAS. — Brazilian on the spot is 8s. per lb.

SPEARMINT. — Offers of U.S.P. quality vary between 33s. 6d. and 38s. per lb. on the spot. Dutch quoted at 32s. 6d., duty paid.

TANGERINE.—Good quality is scarce on the spot at 48s. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

TITREE. — Small lots are offered at 13s. 6d. per lb.

VETIVERT.—Bourbon in original drums on the spot is 90s. per lb.

## UNITED STATES REPORT

NEW YORK, APRIL 19: Firmer among CRUDE DRUGS were BUCHU LEAVES, short rounds at 70 cents a pound, up five cents; GAMBOGE, pipe variety, at $2·35 (up $1·05); and KARAYA, with the No. 1 55 cents (three cents); No. 2, 45 cents (two cents); and No. 3, 40 cents (six cents). ESSENTIAL OILS were generally bullish. Higher per lb. were PIMENTO LEAF at $2·70 (up 10 cents); sweet ALMOND, U.S.P., at 65 cents (10 cents); Algerian GERANIUM, $11·50 (50 cents); and NUTMEG, $3·00 (25 cents). CLOVE LEAF, however, dropped five cents to $1·45 per lb.

# WORLD TRADE

**Italian Mercury Exports.** — Italy exported 86·4 metric tons of mercury worth 471,737,000 lire in January according to the Italian Central Institute of Statistics. Exports were to Finland, 3·4 metric tons; France, 18·9; Germany, 53·4, and the Netherlands, 6·8 tons.

**Finnish Import Authorisations.**— The Bank of Finland has freed certain amounts for specified imports from Great Britain in the first quarter of the year. They include: £10,000 for photographic material, £22,000 for pharmaceutical products and £440,000 for other chemical products.

**Italian Sulphur Industry Loans.**— Sicilian banks have advanced special loans to owners of 360 sulphur mines for payment of back wages to 10,500 miners. Payment to the men is expected to end, for the present, a long series of strikes and strike threats in the industry. Italian exports of sulphur in 1954 totalled only 758 tons compared with 80,000 tons in 1951.

**Swiss Chemical Firms to Combine.** —Three large chemical firms in Basle, the Ciba, A.G., Sandoz, A.G., and J. R. Geigy, A.G., have decided to amalgamate their interests in the production of dyestuffs, according to the chairman of the board of Ciba, A.G. Sales of the three companies will not be affected. The three firms broke off a similar agreement a few years ago. Under the new agreement, the Swiss dyestuff works in Cincinatti and Toms River in the U.S. will be merged.

**U.S. Synthetic Glycerin Project.** — The Shell Chemical Corporation has announced the first step in a new three-phase programme for making synthetic glycerin by a new method. The firm will begin work immediately at Norco, Louisiana, on a new hydrogen peroxide plant with designed capacity of more than 30,000,000 lb. (100 per cent. basis) annually. A second plant, to be built later, will make acrolein and a third plant will produce the glycerin, using acrolein and hydrogen peroxide as intermediates.

**Anglo-Argentine Trade Agreement.** —A new Anglo-Argentine trade agreement signed on March 31 for the period up to June 30, 1956, says the two Governments agree to use their best endeavours to reach a trade target totalling about £170 millions—£84,700,000 each way. Estimated Argentine exports to Great Britain include (£'000, f.o.b.): Pancreas (for insulin), 200, and honey, 200. Argentine imports from Great Britain (£'000, c. and f.) are estimated at: Drugs, 1,200; acids, 250; photographic materials, 100; and photographic apparatus, 40. Imports of capital goods may include machinery and equipment for the preparation of chemical and pharmaceutical products and hospital equipment. From the U.K. or other sterling area countries Argentine imports may include miscellaneous chemicals to the value of £30,000. The above estimated valucs refer to the first year only, ending June 30, 1955. Before that date a committee will discuss the products to bc exchanged during the second year.

# COMING EVENTS

**Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.**

### Sunday, April 24

LONDON PHARMACY RAMBLERS. Ramble via the Surrey-Kent Weald. Meet at Godstone, Surrey, station at 10.30 a.m., for 9.37 train from Victoria. Total walking distance fourteen miles.

### Monday, April 25

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, lower hall, Reform Club, Victoria Street, Nottingham, at 7.30 p.m. Annual meeting.

PHYSICAL SOCIETY EXHIBITION OF SCIENTIFIC INSTRUMENTS AND APPARATUS, New Horticultural Hall, Westminster, London, S.W.1. Open until April 28.

### Tuesday, April 26

LONDON COUNTY PHARMACEUTICAL ASSOCIATION, Horseshoe Hotel, Tottenham Court Road, London, W.C.1, at 7.45 p.m. Meeting for candidates for election to the Pharmaceutical Society's Council to state their policy and answer questions.

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Hanley, at 7.30 p.m. Meeting to discuss the agenda for the Branch Representatives' meeting in London in May.

### Wednesday, April 27

DUNDEE AND EASTERN SCOTTISH and STIRLING AND CENTRAL SCOTTISH BRANCHES, PHARMACEUTICAL SOCIETY, George Hotel, Crieff, at 5.15 for 6.15 p.m. Joint meeting. Talk by a beauty specialist, followed by a film show.

LIVERPOOL CHEMISTS' GOLFING SOCIETY. Ormskirk golf club. First meeting of the season.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Sheffield, at 8 p.m. Discussion of agenda for Branch Representatives' meeting in London in May.

### Thursday, April 28

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Annual meeting. Dr. J. M. Rowson (curator of the Society's museum) on "Rauwolfia and some other Hypotensive Drugs."

### Friday, April 29

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, Preston Hotel, Birkenhead, at 8 p.m. Annual meeting.

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Café Royal, North End, Croydon, at 8 p.m. Mr. Kenneth Ryde (Croydon reference library) "Talking about Croydon."

# TRADE MARKS

**APPLICATIONS ADVERTISED BEFORE REGISTRATION**

**From the "Trade Marks Journal," April 6**

*For analgesic and anti-rheumatic tablets all for human use* (5)
FIBROTABS FIBROSINE TABLETS, 738,468, by International Chemical Co., Ltd., London, N.16.

*For all goods containing sulphonamides* (5)
SULFATRESAMIDE, 738,930, by Sharp & Dohme, Ltd., Hoddesdon, Herts.

*For pharmaceutical preparations and substances for human use* (5)
SEDYSP, 739,171, by Clinical Products, Ltd., Richmond, Surrey.

*For pharmaceutical preparations for human and veterinary use* (5)
CODEVAN, 739,236, by Evans Medical Supplies, Ltd., Speke, Liverpool.

*For optical instruments* (9)
PLANNAR, TELIKON, TOPAR, UMPRAL, 729,553-6, by Carl Zeiss, Wurttemberg, Germany.

*For pumps for scientific and research purposes* (9)
MEDIVAC, 736,970, by W. Edwards & Co. (London), Ltd., Crawley, Sussex.

*For electro-medical apparatus* (10)
ELMED, 738,633, by Electro-Medical Hire, Ltd., London, W.1.

**From the "Trade Marks Journal," April 13**

*For all goods* (1)
Device, with the wording COLUMBIA-SOUTHERN, 726,232, by Columbia-Southern Chemical Corporation, Delaware, U.S.A.
CHEMSTRAND, B735,710, by Chemstrand Corporation, Delaware, U.S.A

*For chemical products used in industry* (1)
RHEOPAK, 731,378, by Aktiebolaget Astra, Strangnasvagen, Sweden.

*For chemical preparations (not being anti-corrosives) for use in removing water from metal surfaces* (1)
RAZDIP, 735,524, by Leslie Mark Ballamy, Constantine, Cornwall.

*For organic substances for addition to the water of oil-engine radiators and cooling systems to prevent the formation of scale* (1)
SURX, 737,538, by Houseman & Thompson, Ltd., Newcastle-on-Tyne.

*For chemical products for agricultural and horticultural purposes* (1)
ELEMIX, 739,312, by Springwood Laboratories, Ltd., Vale of Bardsley, Ashton-under-Lyne.

*For pharmaceutical preparations and substances* (5)
FORTIROL, 738,434, by Societe Anonyme Pour L'Expansion Des Marques De Fabriques Et De Commerce, Courbevoie (Seine), France.
SANDOSTEN, 738,933, by Sandoz, Ltd., Basle, Switzerland. CHERANA, 739,440, by Boots Pure Drug Co., Ltd., Nottingham. SONTOGAN, 739,604, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

*For shaving instruments and razor blades* (8)
REELSHAV, B728,734, by Warner-Hudnut, Inc., New York, U.S.A.

*For corsets and bodices all for surgical or curative purposes* (10)
THERMOSETA, 736,802, by Electrothermal Engineering, Ltd., London, E.7.

# *C. & D.* WEEKLY LIST OF PRICES

**A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 25 per cent.; ‡ = Tax 50 per cent.**

**BOOTS PURE DRUG CO., LTD.** (from April 19)

| | | Doz. | I.R.P. | |
|---|---|---|---|---|
| Isoniazid acid hydrazide tablets (Neumandin Brand) 50 mgm. | 100 | 32 0 | 4 0 | R |
| | | Each | | |
| | 1,000 | 16 8 | 25 0 | R |

**PFIZER, LTD.** (correction)

| | | | | |
|---|---|---|---|---|
| Terramycin S.F. capsules | 16 | 33 4 | 50 0 | |
| | 100 | 200 0 | 300 0 | |
| Tetracyn S.F. capsules | 16 | 33 4 | 50 0 | |
| | 100 | 200 0 | 300 0 | |
| Viterra capsules | 30 | 5 6 | 8 3 | |

**WILES DOG FOODS**

| | | |
|---|---|---|
| Wiles cat food | | 8 A |

## P.A.T.A. PROTECTED LIST

DELETIONS FROM THE PROTECTED LIST

**ADVANCE INDUSTRIES, LTD.**
Dis-Pel, Dip.

**ASPRO, LTD.**
Aspro.

**A. F. SHERLEY & CO.**
All Sherley's cat and dog medicines

## PHOTOGRAPHIC DEPARTMENT

**KODAK, LTD.**

| | | |
|---|---|---|
| Retinette camera‡ | 414 | 9 |
| Kodablitz flashholder | 55 | 8 |
| Kodablitz carrying case | 17 | 3 |
| Kodablitz flash units | 33 | 2 |
| Kodablitz extension cables | 15 | 3 |
| Kodisk lens hood | 8 | 7 |
| Leather ever-ready carrying case | 59 | 8 |
| Photo-flo solution 4 oz. | 3 | 0 |
| 20 oz. | 7 | 6 |
| 80 oz. | 20 | 0 |

# In April

## WOMEN OVER THIRTY WILL BE ASKING FOR

# Endocil

Half-page advertisements will appear regularly in

**VOGUE**
**HARPER'S BAZAAR**
**HOUSEWIFE**
**GOOD HOUSEKEEPING**
**WOMAN'S JOURNAL**
**WOMAN & BEAUTY**
**VANITY FAIR**
**VOGUE BEAUTY BOOK**

**Advantages to you in stocking and recommending Endocil**

**1**
It is available only through chemists.

**2**
Special display discount gives exceptional profit.

**3**
The effectiveness of the cream has been proved. This ensures repeat business through *you*.

Display Outers and show card available.
Endocil (*only available through chemists*) costs merely 5/3d. including P.T.

ORGANON LABORATORIES LIMITED, BRETTENHAM HOUSE, LANCASTER PLACE, W.C.2

# COLBY

**introduce new 6 star service**

***Now customers can order individually designed surgical stockings through you!***



- ★ Sufferers see Colby showcard in your window offering individually designed surgical stockings.
- ★ They enter and order from you (wide range includes Nylon Yarn, Elastic Yarn, Cotton Net).
- ★ You fill in the order form and post it.
- ★ We send you customer's exact requirements.
- ★ You complete the sale and pocket the retail profit margin.
- ★ Customers come into your shop twice. Two opportunities for loose change purchases.

*No capital outlay on stocks.*
*No shelf space taken up.*
*No sales losses through being "temporarily out of stock."*

*Send today for material samples, eye-catching window display cards, counter leaflets, price lists and order forms. Write to:*

**COLBY**

**SURGICAL ELASTIC HOSIERY**

(DEPT. CD), 314 EUSTON ROAD, LONDON, N.W.1.

# PURE CRYSTALLINE D3

***Manufacturers:***

**PEBOC**

**LIMITED**

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*Enquiries to* SALES OFFICE
**629/630 TOWER BUILDING**
**LIVERPOOL 3 · ENGLAND**

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LABORATORIES
GREENFORD · MIDDLESEX

....Reputable....
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# RODENTICIDES *by* RODINE




RODINE WARFARIN POWDER

*Sure Sources of Profit!*

THOS. HARLEY LTD • Rodine Works • PERTH • Scotland



# C. Olley & Sons Ltd.

EST. 1844

**CORKS, STOPPERS, BUNGS.**

Telephone Royal 4922/3

**CAMPERDOWN STREET**
**LONDON, E.1.**

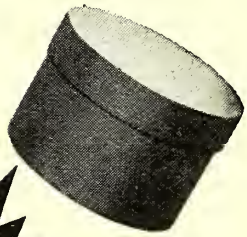
STANDARD ROUND BOXES FOR THE CHEMIST—



"LITTLE JOHN" DRUMS



PILL BOXES



— by ROBINSONS of CHESTERFIELD of course



"SEALITE" OINTMENT BOX

"CHEPETTE" PILL & OINTMENT BOX

REGD. TRADE MARK

ALL AVAILABLE FROM STOCK THROUGH YOUR USUAL SUPPLIER
ROBINSON & SONS LTD WHEATBRIDGE MILLS, CHESTERFIELD
Telegrams: BOXES CHESTERFIELD Telephone: 2105 (6 lines)
and
KINGS BOURNE HOUSE, 229–231 HIGH HOLBORN, W.C.1
Telegrams: OMNIBOX HOLB. LONDON Telephone: HOLborn 6383

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Please ask your usual wholesaler to show you our range, or write to us for Catalogue and Price List.

**DE-LUXE MODELS** are made from 4 mm. optical sheet; fitted with nickel-silver screw-joints and N/S wire-cored temples.

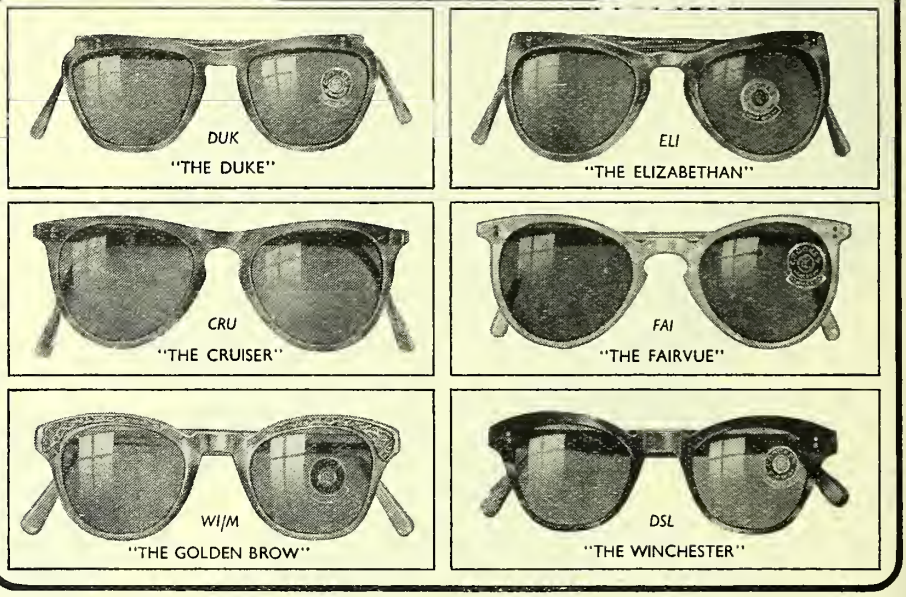
Each frame carefully hand-finished and polished.

Available fitted with either
**"CROOKES" Smoke Lenses**
or
**Full-Mirrored Lenses**

Sole Manufacturers:—

**BUY BRITISH** **SUN Spectacles** **THIS SEASON!**

**DE-LUXE MODELS**




**OPTICAL PRODUCTS LTD., 370/2 STATION ROAD, FOREST GATE, LONDON, E.7.** *MARYLAND 1766 & 1550*

# YOUR MOST RELIABLE ASSISTANT



Giving smooth, trouble-free service throughout the day, never asking for time off, smart in appearance and popular with the customers. This paragon of all the virtues is the GLEDHILL Cash Register — your most reliable assistant.

There are five distinct types to meet the varied requirements of different retail trades. You can learn all about them, and the important part they can play in your business, by writing for the illustrated Catalogue which will be sent on request.

*Don't guess—get a Gledhill*

*British made for 60 years*
HIRE PURCHASE TERMS AVAILABLE
**G. H. GLEDHILL & SONS LIMITED. 28 TRINITY WORKS, HALIFAX.**



# PEG BOARD BRACKETS

**for YOUR business**

We have all the correct peg board brackets for displaying the goods you sell. There are many kinds to choose from. Our brackets are supplied in bronze and silver zinc finishes, from **15/-** per doz.

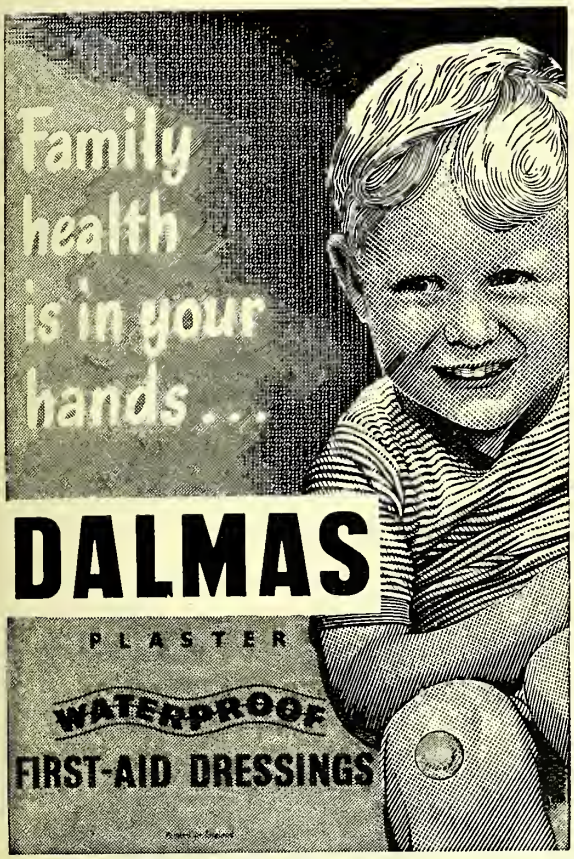
**PEG BOARDS**

*First quality.* Stove enamelled in black, white, cream, green, burgundy, or oak veneer. 8ft. × 4ft. from **88/-**.

In natural colour, undecorated, from **25/-**.

Fluorescent letters for peg boards, from **48/-** per doz.

**CHURCH & CO.**
**(FITTINGS) LTD.**
**36 MINSTER ST., READING**
Telephone: READING 2035/6
*Write for details or ask our representative to call.*

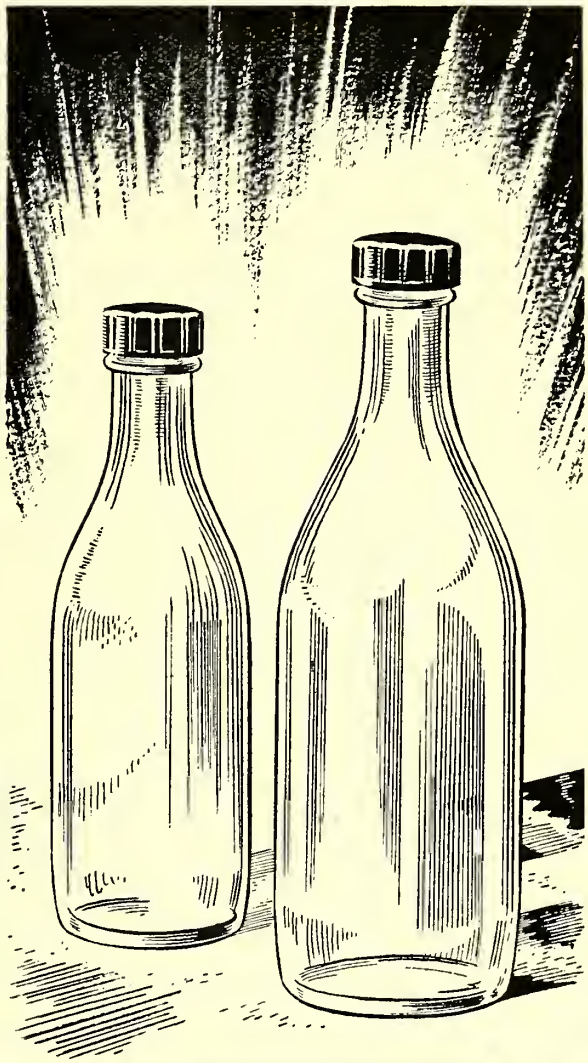



## *This Little Fellow . . .*

will bring you more business. He's making sales for DALMAS WATERPROOF DRESSINGS (the ones in the blue box). He is appearing regularly in the National Press and a delightful showcard is available on request.

# Display to Sell DALMAS

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## *BEATSON*

PLASTIC CAPPED

## *Olive Oils*

These bottles greatly enhance the presentation of packed oils. They are available in 2½ oz., 5 oz., 10 oz., and 20 oz., capacities.

**BEATSON, CLARK & CO., LTD.**

*Glass Bottle Manufacturers*

ROTHERHAM *Est. 1751* YORKS

TRADE MARK

*"The Sign of a Good Bottle"*

REGISTERED

B.C.75

# *In atonic constipation*

**PURSENNID** contains the pure Sennosides A & B of *Cassia augustifolia* in the form of their calcium salts.

**PURSENNID**, taken at bed-time, exerts a gentle but effective laxative action on the following morning.

**PURSENNID** does not cause griping, cramps or colic owing to the fact that the active compounds are pure glucosides, constant in quality and potency, and the preparation is free from irritant impurities contained in crude senna preparations.

**PURSENNID**

***Tubes of 40 and 200 tablets, each containing 12 mg.***

SANDOZ

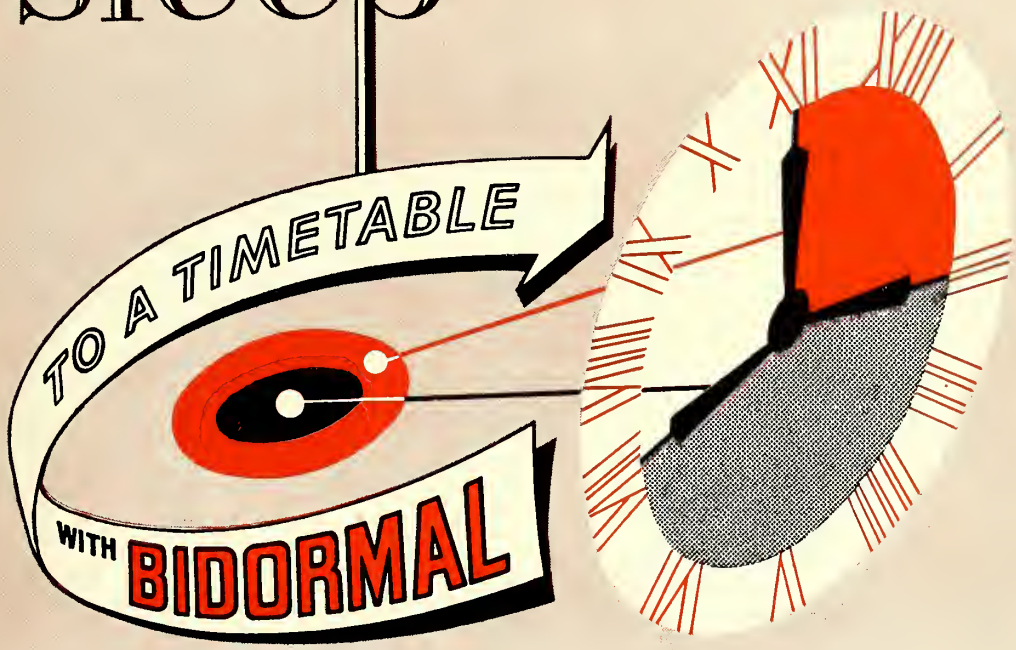
*Schweiz. med. Wschr.*, 1941, 71, 1093
*Rev. méd. Suisse rom.*, 1941, 61, 585
*Amer. J. dig. Dis.*, 1945, 12, 221

**SANDOZ**

**PRODUCTS LIMITED**

***134, Wigmore Street, London, W.1***

# sleep







POISON | Sch. 4

*The **NEW** two phase action ensures a complete night's sleep and obviates "hangover".*

*Presentation:* In bottles of 25 and 500 Tablets

*Manufactured in England by*

ALLEN & HANBURYS LTD LONDON E2

**Pattinson's** REGISTERED BRAND PRODUCTS

- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
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- MAGNESIUM OXIDE LEVISSIMA
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- CREAM OF MAGNESIA B.P.

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*for the* **PHARMACEUTICAL** *Industry*

**THE WASHINGTON CHEMICAL CO. LTD.**

*A member of the* TURNER & NEWALL ORGANISATION

WASHINGTON · CO. DURHAM · ENGLAND

*May we quote you for———*

**GLAUBER SALTS** B.P.

PEA AND FEATHERY CRYSTALS

**EPSOM SALTS** B.P.

NEEDLE CRYSTALS, MEDIUM, EXSICCATED.
ALL B.P. GRADES CONFORM TO 1953 STANDARD.
ALSO COMMERCIAL, BATH, & VETERINARY QUALITIES.

**HARRIS, HART & Co. LTD.**

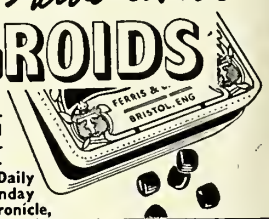
GREGGE STREET WORKS
HEYWOOD, LANCS.

TELEGRAMS: HARP. HEYWOOD, LANCS.
TELEPHONE: HEYWOOD 6570

*Nationally Advertised*

**NIGROIDS**




Nigroids—the original liquorice and menthol pellets—are nationally advertised in the Daily Telegraph, Sunday Observer, News Chronicle, Manchester Guardian, The Times. See that you have a good stock on hand.

*From Wholesalers or Direct from Sole Manufacturers:*

FERRIS & CO. LTD., BRISTOL, 2

RETAIL PRICE ONLY 9½d.

*Show 'Elasto' — It Sells on Sight!*

**Elasto**

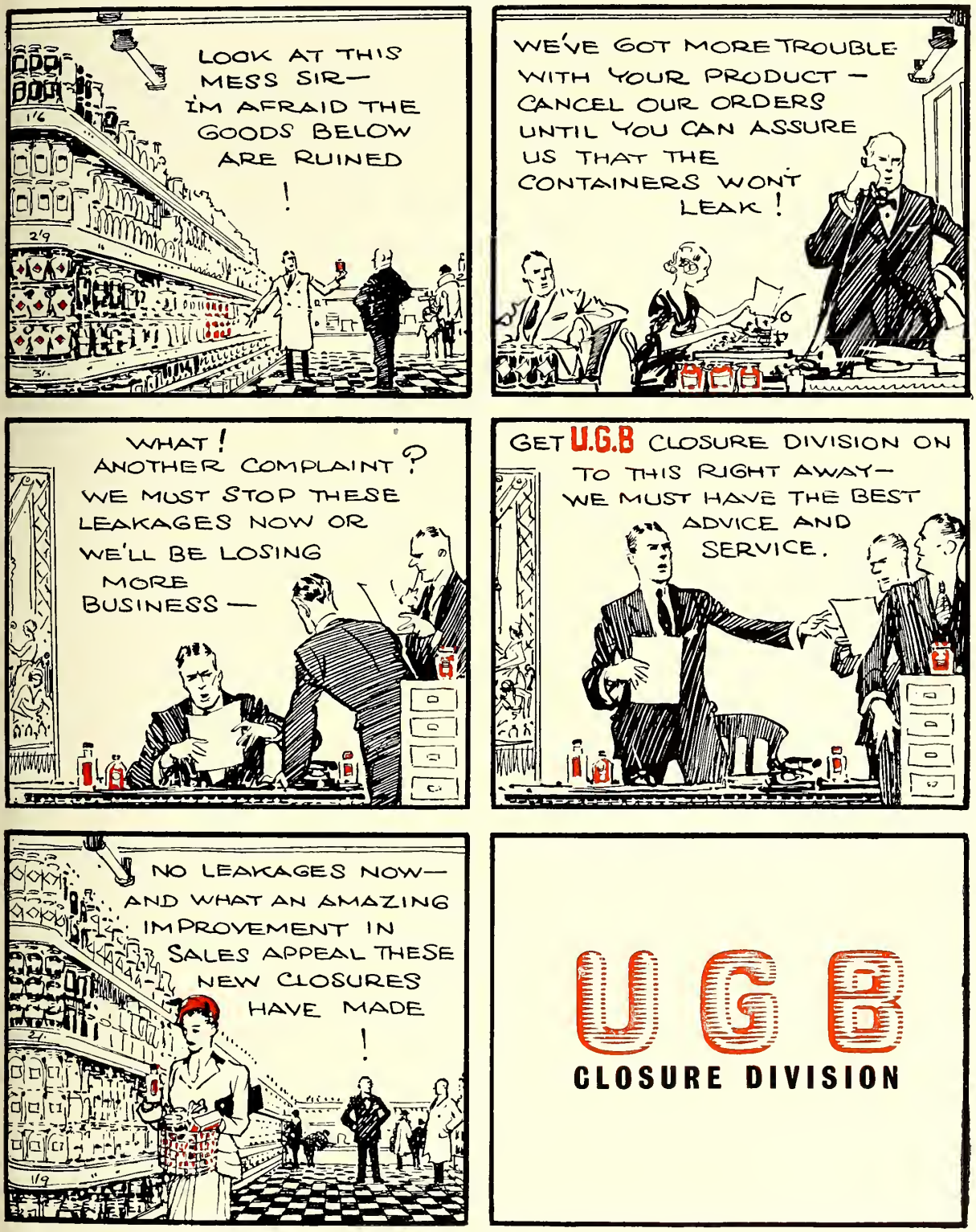
THE BIOCHEMIC TABLET

Retail Price (Incl. P.T.)
5/8d. and 22/7d.

ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

**NEW ERA LABORATORIES LTD.**

CECIL HOUSE · HOLBORN VIADUCT · LONDON




**UNITED GLASS BOTTLE MANUFACTURERS LTD**

8 LEICESTER STREET, LONDON, W.C.2

*Telephone:* GERRARD 8611 (18 Lines) *Telegrams:* UNGLABOMAN, LESQUARE, LONDON

# Edible BONE Phosphate

Presents

## CALCIUM and PHOSPHORUS IN THEIR MOST READILY ASSIMILATED FORM

Available as a white, sterile, free-flowing powder in 200, 100, and 50 mesh.

• *FULL PARTICULARS, SAMPLES, AND PRICES ON REQUEST.*

**CALFOS LTD.,** IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2 · *Phone:* TEMple Bar 3629

---

2 QUESTIONS *(theirs)* AND 2 ANSWERS *(yours)*

**Q:** Would it be very easy to give my hair an auburn colouring?

**A:** *With Camilatone synthetic Henna Cream—yes! You just rub it in after your shampoo and then rinse it out.*

**Q:** Is there any way I can test it first?

**A:** *Certainly. Just send a snipping of your hair to Camilatone and tell them what degree of auburn colouring you want.*

**Q:** Will their advice be complicated to follow?

**A:** *Not at all. They'll simply tell you how long to leave this synthetic Henna Cream on before rinsing.*

**Q:** Will it affect my permanent wave?

**A:** *Not at all. Besides it contains a conditioner—makes your hair far more manageable. But be sure you ask for it by name.*

CAMILATONE SYNTHETIC HENNA CREAM

**3/6 A TUBE**

*Trade Price 18/8d. per doz. plus 75% P.T.*
*Display outer and showcard supplied.*

CAMILATONE LTD., EDGWARE ROAD, LONDON, N.W.9

# Domestos "Clean-up" in 3000 Leading Cinemas

## *22 Million to see hard selling, sales making films programme*

The audience for the three popular Domestos 'puppet' films this year will total nearly 23,000,000 spread over 3,100 cinemas.

These three films, amusing, entertaining, pack a mighty sales punch. They really do *sell* the housewife on the *extra* effectiveness of Domestos for eliminating the danger lurking in unclean sinks and drains especially "round the unseen bend where no brush can reach".

In more and more homes Domestos is giving hospital cleanliness the pleasant, modern way. These films will help your sales of Domestos to keep on growing.



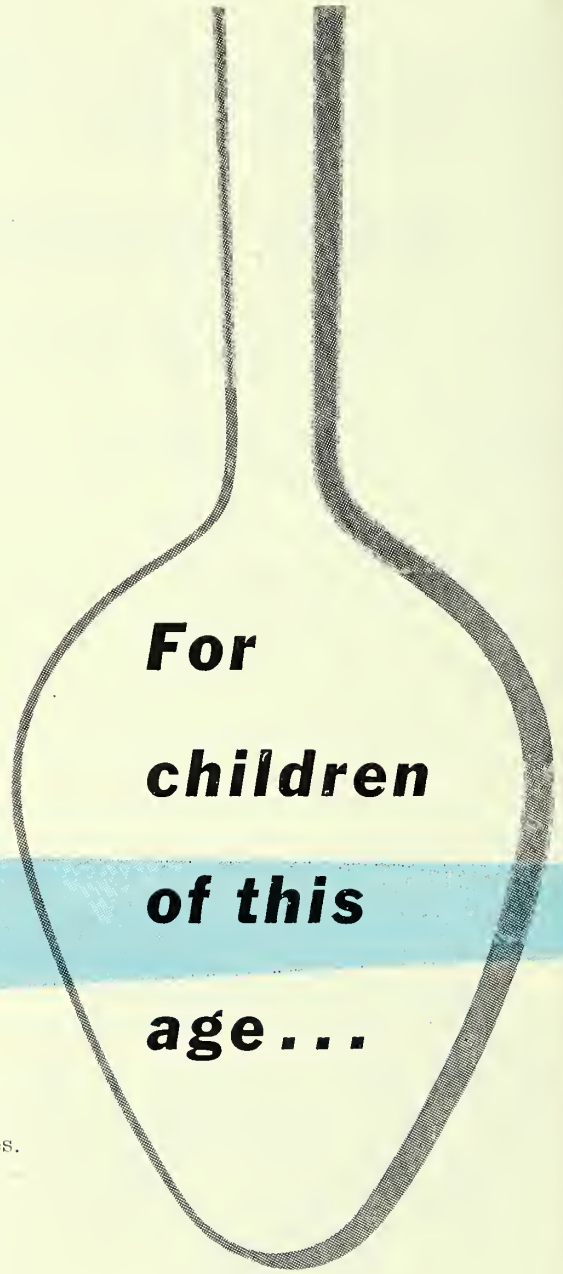
**"TERRIFIC!..."**

***Public opinion very favourable . . ." comments a leading Cinema Manager***

That is the opinion of the Manager of one of Britain's largest cinemas on "*Your Daily Help*"—one of three Domestos films to be screened this year.

✳ **APPROPRIATE COUNTER & WINDOW DISPLAY MATERIAL AVAILABLE**

**DOMESTOS LIMITED** COLLEGE WORKS, NEWCASTLE UPON TYNE, 6



Pour out a spoonful of VI-DAYLIN . . . notice its honey appearance . . . smell its citrus odour . . . then taste it. That delicious flavour explains why children love VI-DAYLIN. Now look at the formula—here is truly effective multivitamin therapy. Seven important vitamins, well-balanced, with an average daily dose of one 5 cc. teaspoonful. Mixes with milk, juices and soft foods, and stable without refrigeration.

VI-DAYLIN is supplied in 90 cc. bottles.

**For children of this age . . .**

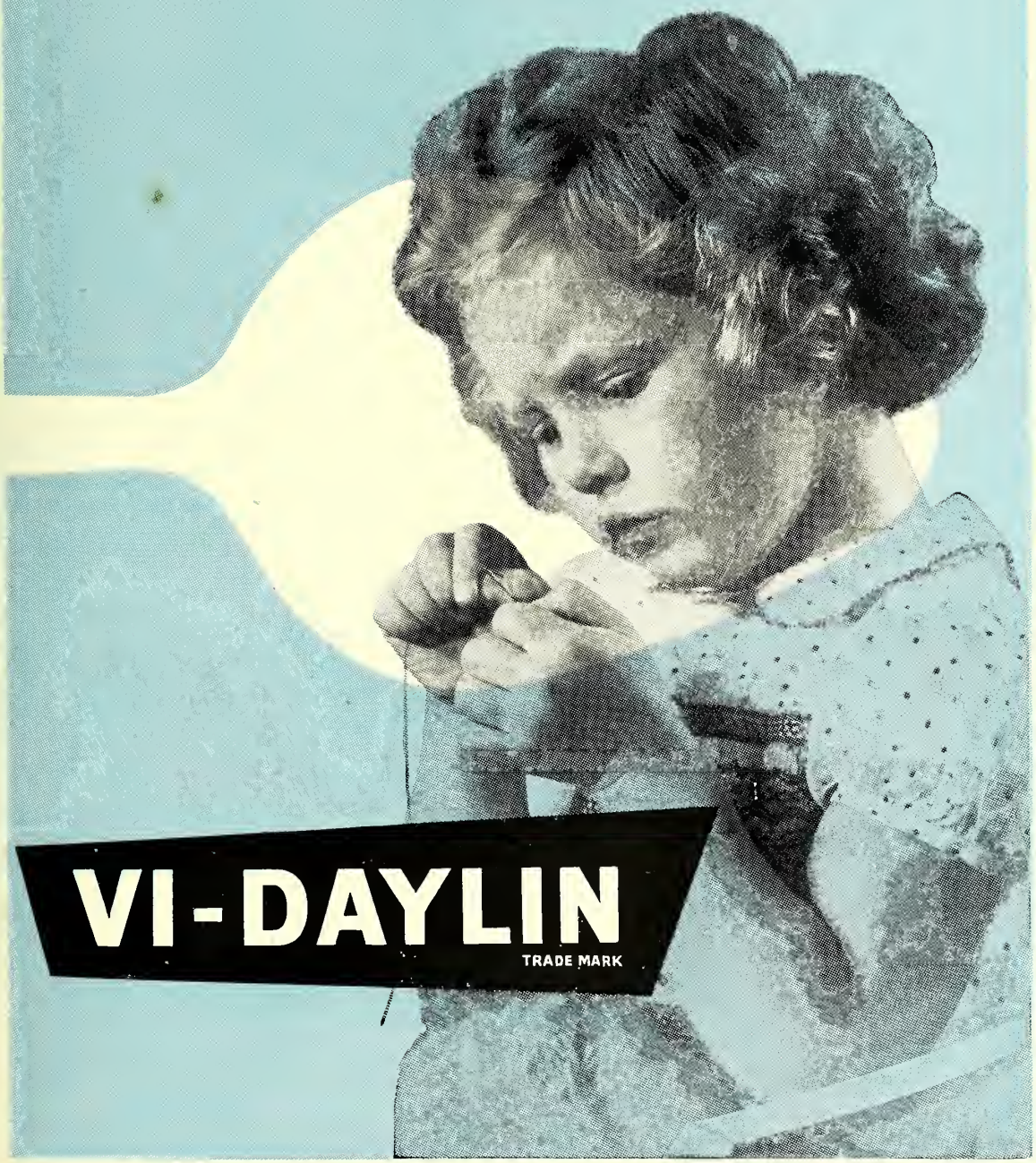
**. . . many doctors prescrib**

*Homogenized mixture of vitamins A, D, $B_1$, $B_2$, $B_{12}$, C and Nicotinamide, Abb*

ABBOTT LABORATORIES LTD · PERIVALE · GREENFORD · MIDDLES

***Each 5 cc. of Vi-Daylin contains***

Vitamin A . . . 3,000 i.u.
Vitamin D (Viosterol), B.P. . . . 800 i.u.
Aneurine Hydrochloride, B.P. . . . 1.5 mg.
Riboflavine, B.P. . . . 1.2 mg.
Vitamin $B_{12}$, B.P. . . . 3 mcg.
Ascorbic Acid, B.P. . . . 40 mg.
Nicotinamide, B.P. . . . 10 mg.



**VI-DAYLIN**
TRADE MARK

# For Quality Glass Containers—

## *and excellent service*

- DISPENSING BOTTLES
  1-oz to 20-oz
- RIBBED OVALS
  ½-oz to 16-oz
- TABLET BOTTLES
  Nos. 1 to 7½ sizes
- ROUND SCREW JARS
  Tall and Semi-squat
- BOW-FRONT PANELS
  1-oz to 8-oz and 16-oz.
- PANELLED FLATS
  1-oz to 4-oz
- VIALS
  ½-oz to 3-oz
- OLIVE OIL BOTTLES
  2½-oz, 5-oz & 10-oz

*WHOLESALE ONLY*

**NATIONAL GLASS WORKS (YORK) LTD**

FISHERGATE, YORK. Tel. YORK 3021
ALSO AT: 105 HATTON GARDEN, LONDON, E.C.1
TEL: HOLBORN 2146

● *Packed in easily handled cartons*

TRADE N MARK

# What people think of Flextron

*Dear Sirs,* 2.2.54

*You may be interested to learn of my experience with one of your "Flextron" Tooth Brushes—in my opinion it is worthy of recording.*

*I purchased this brush (Hard bristles) in mid-June last year, after reading your advertisements, and only now after eight months continual use—4 times daily—is it reaching the end of its life. I think the poor old chap has more than earned its retirement, as the bristles are somewhat flattened, but during all this time not a single one has come out. To me this is positively astonishing, as previously I have tried —, —,* your earlier brushes, and other makes, and in all cases they have been unusable after two months.*

*After this experience there will only be one Tooth Brush for me in the future—a "Flextron," and if my next gives me half the service of the one named, I shall be delighted.*

*I thought you might be glad to read of the success of your new venture, and if you care to use extracts from this letter for advertisement purposes, you may do so provided my name and address are deleted.*

**The writer mentions two well-known brands*

## IN LESS THAN A YEAR— SECOND IN THE MARKET!

**We introduced Wisdom Flextron toothbrushes some two years ago, and within a year Flextron sales were running higher than those of all other brands except one.**

**There is little doubt that this year sales are still going to go on increasing. And remember, when you sell Flextron not only do your customers get a better brush, but you make a better profit.**




***Be wise— sell Wisdom*** REGD.

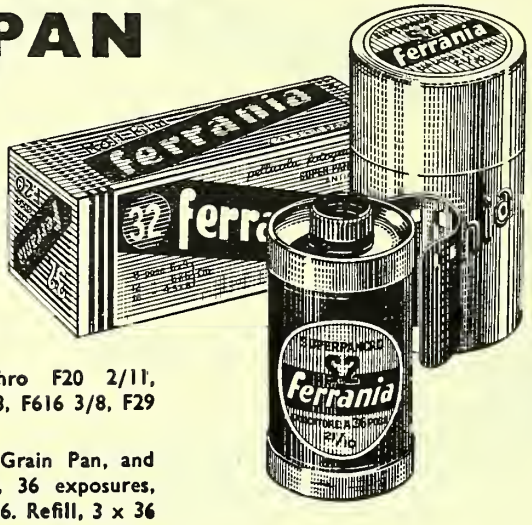
The quickest-selling toothbrush

MADE BY ADDIS LIMITED, BRUSHWORKS, HERTFORD

**ferrania**

**SUPERPAN FILMS**

*for speedy sales*




ROLL FILMS. Superpanchro F20 2/11, F620 2/11, F27 2/7, F16 3/8, F616 3/8, F29 2/11.

35 mm. FILMS. P.3 Fine Grain Pan, and S.2 Superpanchro cassettes, 36 exposures, 8/9. Refill, 36 exposures, 4/6. Refill, 3 x 36 exposures 12/1. Refill, 10 x 36 exposures, 36/11.

**NEVILLE BROWN & CO., LTD.**
77 NEWMAN STREET · LONDON · W.1 Telephone: LANgham 7161 (10 lines)

**ferrania CAMERAS**



IBIS 27 ... £3 15 0
IBIS 6 x 6 ... £4 18 6



DISTRIBUTED by NEBRO

ELIOFLEX ... £11 18 6

*for prompt service and personal attention*




**SUMNER'S**
OF LIVERPOOL & CARDIFF

Makers of Vitasac
The Perfect Baby Food

★ DRUGS
★ GALENICALS
★ DRESSINGS
★ INSTRUMENTS
★ PROPRIETARIES

**R. SUMNER & CO., LTD.**

HANOVER STREET, LIVERPOOL. TEL: ROYAL 6644
FITZALAN ROAD, CARDIFF. TEL: CARDIFF 32696

SV172

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**IMPORTERS AND SUPPLIERS OF PHARMACEUTICALS**

SODIUM para AMINO SALICYLATE
ISONICOTINIC ACID HYDRAZIDE
FERROUS GLUCONATE
NICOTINAMIDE
GLYCINE

**HALEWOOD CHEMICALS LTD**
111-115 EASTBOURNE MEWS
LONDON, W.2
AMBassador 4198-5457

# PHARMACEUTICAL EXCELLENCE

| | |
|---|---|
| Sodium Penicillin G | Streptomycin sulphate |
| Potassium Penicillin G (Buffered) | Dihydrostreptomycin sulphate |
| 'Distaquaine' G | 'Distavone' |
| 'Distaquaine' Fortified | 'Mixtamycin' |
| 'Distaquaine' Suspension | 'Streptaquaine' |
| 'Distivit' $B_{12}$ | Solution |

*Supplies are available from your usual wholesaler, or direct from*

ALLEN & HANBURYS LTD. BRITISH DRUG HOUSES LTD.
BURROUGHS WELLCOME & CO. EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

*All names quoted thus 'Distaquaine' are trademarks, the property of the manufacturers*

MANUFACTURED BY

## THE DISTILLERS COMPANY

*(Biochemicals) Limited*

DEVONSHIRE HOUSE, PICCADILLY, LONDON, W.1

**We presented it . . .**

**you promoted it . . .**

**let's make it a STAR . . .**

A national advertising campaign is now in full swing, and more and more women are buying this perfect non-soluble santowel — the santowel that combines *all the essential features* for the first time . . . at the right price. Keep Blue Star in stock to meet the growing demand.

# Blue Star

**by Southalls**

the NEW Santowel designed by women for themselves.

***Order TODAY from your wholesaler!***

---

# AT NO EXTRA COST

Maw's

**Packed Pharmaceuticals**

*offer you*



- **Comprehensive range meeting popular demand.**
- **Choice of 56 outstanding labels each personally imprinted.**
- **Our register ensures exclusivity of *your* choice in *your* district.**
- **Continuity of modern presentation assured.**
- **Truly economical — trouble-free range stocking.**

*Further details of this attractive proposition from our representative or Dept. PH1.*



*S Maw Son and Sons Limited*
*Barnet England*

# FOR THE SMART ASSISTANT...

## nothing is smarter than NYLON





**Our Nylon Overalls and Short Coats are tailored** from superb British nylon cloth woven exclusively for Hardy & Webster. A special manufacturing process ensures *guaranteed fray-proof* seams and turnings. It's a real hard wearer, smart and comfy. Washes and dries at top speed. *Is fully, fully guaranteed.* It's the overall for you because it *is* Britain's *best* nylon-overall. Please do ignore inferior imitations.

**SEND YOUR ORDER TODAY,**

**WE PROMISE IMMEDIATE ATTENTION**

**S.B. NYLON OVERALL** (Illustrated). Charmingly tailored from Hardy & Webster's exclusively woven opaque nylon. In White, Saxe, Turquoise, Leaf Green, Pink, Navy, Cream and Ruby, with flared skirt, two-way neck. INSET POCKET IN SKIRT, patch breast pocket, detachable buttons.

**CROSS-OVER STYLE** has generous reversible front wrap, three patch pockets, tie belt, colours as above.

*These garments are for protective wear. Please order size allowing for normal clothes.*

| SIZES | SW | W | FW | WX | OS |
|---|---|---|---|---|---|
| Bust | 36 | 38 | 40 | 42 | 45 |
| Hip | 38 | 40 | 42 | 44 | 47 |
| Length | 45 | 46 | 46 | 47 | 48 |

**PRICES** (short sleeves) Size SW, W, FW, WX 69/11; OS 74/11; long sleeves 5/- extra.

Gents' S.B. Jacket with 3 patch pockets.

36"/44" 63/- each
46" & 48" 68/- each

Available in White, Fawn, Grey, Navy or Brown.

*Packaging and postal charges 1/9 for each parcel.*

**Satisfaction guaranteed or money returned.**
OTHER MEN'S STYLES AVAILABLE
SEND 2½d. STAMP FOR CATALOGUE

*and for the Smart Employer NO MORE LAUNDRY BILLS*

## HARDY & WEBSTER

**DEPT. CJC, DEWSBURY ROAD · LEEDS 11**

# FOR YOUR CF DISPLAYS

ADAPTOPLAST FIRST AID DRESSINGS and CARNATION CORN CAPS




COMPLETE WITH CONTENTS 23/8 (INCLUDING TAX)

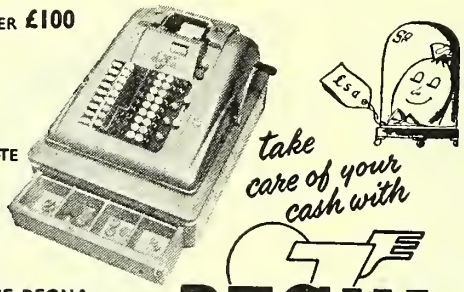
A NEW STAND FOR
**"ADAPTOPLAST"**
(the only C.F. First Aid Dressing of this type) and
**"CARNATION" CORN CAP**
(still the Favourite)

Now is the time to display Carnation Corn Caps and Adaptoplast. Until Autumn the demand for these is at its greatest, and this display piece will ensure you do not miss this business. It has been specially designed to act not only as an effective sales aid, but also as a convenient stock and serving arrangement. The stand contains 18 cartons, 1/1d. Carnation Corn Caps, 12 tins, 9d. Adaptoplast and 3 tins, 1/6d. Adaptoplast, and is supplied COMPLETE with contents at **23/8d.** (including tax). Carriage paid on £4 orders.

SIZE: 10 ins. wide, 9 ins. front to back, 12 ins high.

PRODUCTS OF
Cuxson, Gerrard & Co. Ltd.
OLDBURY BIRMINGHAM

PRICES UNDER £100
H.P. TERMS
DELIVERIES EX STOCK
MAY WE DEMONSTRATE



take care of your cash with

THE REGNA CASH REGISTER COMPANY
(Proprietors: The Joeli Safe Co. (London) Ltd.)
*Telephone: TRAfalgar 3718*
York Place, Adelphi, London, W.C.2

**REGNA CASH REGISTER**

N23

# A WARM favourite!



# Victory V

GUMS & LOZENGES
FRYER & CO. (Nelson) LTD., NELSON, LANCS.

"Sweetheart" "Drinkrite"
**DRINKING STRAWS**
special **SMALL PACKS** of 25, 50 and 100 straws.
Order now and **INSIST** on these brands for **QUALITY.**
HYGIENIC DRINKING STRAWS CO. LTD.,
College Road, Fishponds, Bristol

**DICTIONARY OF SYNONYMS**
For the pharmacist *and* his staff.
Contains over 7,000 synonymous terms.
5/4 POST FREE
***The Chemist and Druggist***
28 ESSEX STREET, LONDON, W.C.2

# "ROADMASTER" NIGHTDRIVING GLASSES

*—the new accessory that every Motorist wants!*

*Manufacturers:* **FISH OPTICAL CO. LTD.★**
McNeish House, 261 HARROW ROAD, LONDON, W.2
*Tel.: CUNNINGHAM 8318 & 8267*
★Makers of the world-famous 'SUNGARD' Sunglasses

# "MOTHOWIX" MOTHTRAP




RETAILS AT 6D
PER 48/- GROSS

★ Odourless!

★ Actually catches and kills moths!

*order with*

Cox's

*THE ORIGINAL*

## D.D.T. FLYCARDS

| | | |
|---|---|---|
| **Cox's 3d.** | **D.D.T. FLYCARDS** (THE ORIGINAL) ... | **24/-** PER GROSS |
| **Cox's 3d.** | **D.D.T. CHIMPS**... ... ... ... ... | **24/-** ,, ,, |
| **Cox's 4d.** | **D.D.T. PARROTS** ... ... ... ... | **32/-** ,, ,, |
| **Cox's 4d.** | **D.D.T. ROSE BASKETS** ... ... ... | **32/-** ,, ,, |
| **Cox's 6d.** | **MOTHOWIX MOTHTRAPS** ... ... | **48/-** ,, ,, |

LESS 2½% MONTHLY ACCOUNT

**BONUS TERMS—10% ON ORDERS FOR 3 GROSS**

THIS OFFER APPLIES TO ORDERS FOR FLYCARDS AND MOTHOWIX
**IN ANY ASSORTMENT**

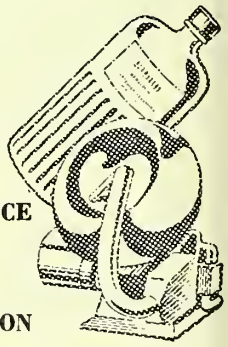
JAMES COX & CO., D.D.T. WORKS, STH. HARROW, MIDDLESEX. Telephone: BYRON 4326



Calling all

# PROPRIETARY MANUFACTURERS

When reviewing your drug requirements for the coming winter manufacturing period; remember that we carry a *comprehensive* range of galenicals at highly competitive prices. Remember, too, that we are well equipped to make up proprietary lines precisely to your formulas and specifications in strict confidence — so helping you to realise new record output whatever the season.



GALENICALS

TABLETS

COMPLETE PROCESSING SERVICE

*Write, phone or wire us your requirements:*

**HARKER STAGG LIMITED**

EMMOTT STREET, LONDON, E.1.

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BEST-SELLERS ALL the year round!




Sun-tang—made from *whole* oranges, sugar and glucose—contains Vitamin C, essential to good health.

Niagara—made from Blackcurrant juice and sugar—rich in Vitamin C—the perfect drink for young and old alike.

Increased advertising means more customers for you—more customers asking for both these delicious, health-giving drinks. Meet the extra demand by ordering ample stocks *NOW* and make sure of year-round profits. Eye-catching display material, certain to boost sales, can be obtained from your usual wholesaler or direct from

**BARNETT & FOSTER LTD.**

QUEENSBRIDGE ROAD, LONDON, E.8. Tel.: CLIssold 7132

HOME TRADE JKL EXPORT

# MENTHOL

# LIQUORICE
JUICE & ROOT

# SARSAPARILLA

and all other Botanicals, Gums, Waxes, Essential Oils and Spices

**JOHN KELLYS (LONDON) LTD.**

24 OLD BROAD STREET, E.C.2

*Telephone: LONdon Wall 6585 (4 lines)*
*Telegrams: "Ergotine, Stock, London"*

NEW YORK · HAMBURG

# MORE PROFIT FOR YOU!

## THE PALMOLIVE BANDED PACK
## 3 tablets for only 1/3—3D. less than usual price!







**The sales of Palmolive will soon be sent soaring! A money-saving offer like this Palmolive Banded Pack—supported by really powerful advertising—is bound to create terrific demand!**

## GET IN GOOD STOCKS OF PALMOLIVE NOW!

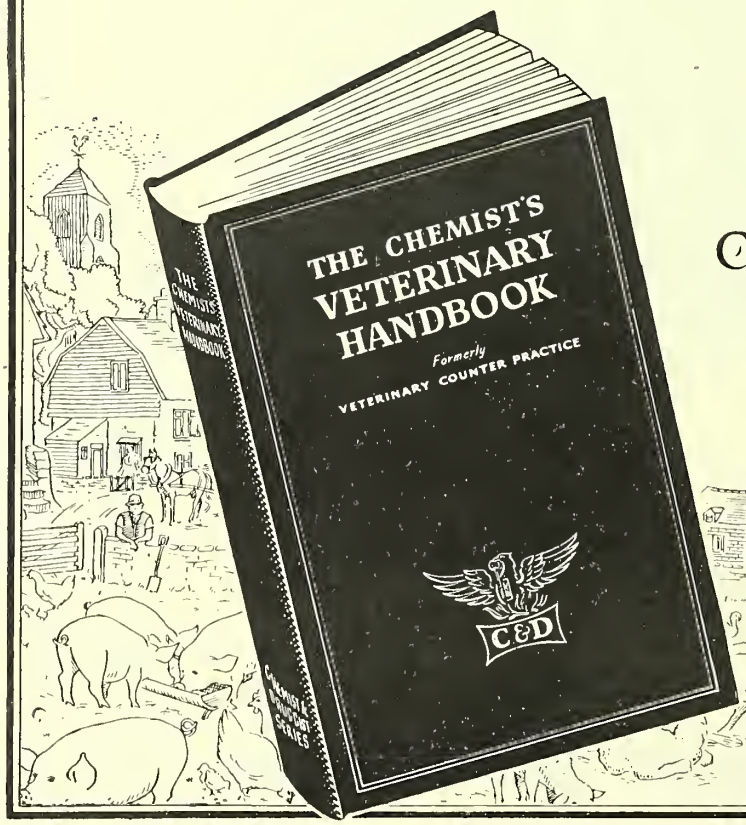
ENTIRELY REWRITTEN

*Every country chemist, every chemist with pet-owning customers, needs a copy of this NEW work—*

# THE CHEMIST'S VETERINARY HANDBOOK

(*formerly VETERINARY COUNTER PRACTICE*)

**The changes that have transformed veterinary medicine, as they have transformed human medicine, are all dealt with in this expertly written book. Its information on animal diseases is up-to-date and adequate for all the purposes of the pharmacist, enabling him to answer the inquiries and meet the requirements of members of the veterinary profession, to dispense their prescriptions, and to handle with knowledge the goods that farmers, poultry keepers, pet owners and animal lovers are accustomed to buy from him.**




**NOW ON SALE**

**27/6**

Postage 9d.

The CHEMIST AND DRUGGIST
28 ESSEX STREET, STRAND
LONDON, W.C.2

AGFA
AKRON
ADEMCO
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GNOME
GRUNDIG
HALLIDAY
HUNTER
ILFORD
JOHNSON'S
KENTON
KERSHAW
KODAK
KOSMOS
M. & B.
M.P.P.
MILBO
NAGARD
NEBRO
NORTH STAFFS
PAKOLOR
PHILLIPS
PHOTAX
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# LARGE

OR SMALL?

# If so . . .

Order your whole Photographic and Tape Recording range from JONATHAN FALLOWFIELD, where all your requirements will be met promptly and where a great fund of knowledge and experience will gladly be devoted to solving your every requirement.

**Wholesalers to the Photographic Trade**

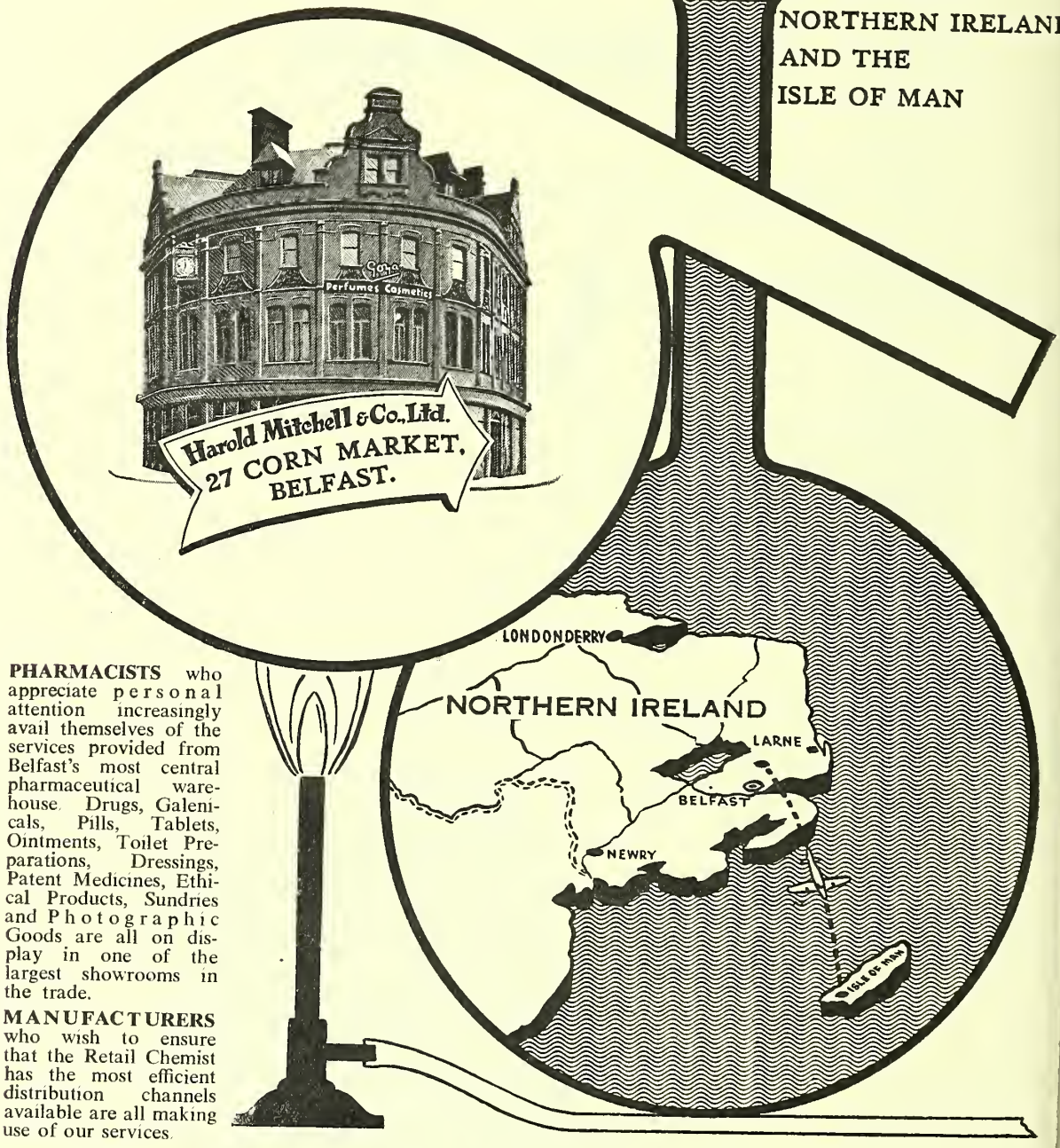
WHOLESALE PHOTO SUPPLIES

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**74 NEWMAN ST. LONDON W.1 . *MUSEUM* 7401-2-3**

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AND THE
ISLE OF MAN




**PHARMACISTS** who appreciate personal attention increasingly avail themselves of the services provided from Belfast's most central pharmaceutical warehouse. Drugs, Galenicals, Pills, Tablets, Ointments, Toilet Preparations, Dressings, Patent Medicines, Ethical Products, Sundries and Photographic Goods are all on display in one of the largest showrooms in the trade.

**MANUFACTURERS** who wish to ensure that the Retail Chemist has the most efficient distribution channels available are all making use of our services.

# Harold Mitchell & Co., Ltd.

## Wholesale Chemists, Belfast.

Telegrams : "Tenacity"

Telepnones : 31566 (3 lines)

The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS
Supplement
28 ESSEX STREET, STRAND, LONDON, W.C.2

**ORRIDGE & COMPANY** 184 STRAND, W.C.2
Tel.: TEMple Bar 9212/3 & 6340
*CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL*
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**HANDFORTH,** near Manchester. Large house suitable shop conversion. Main road, centre shopping area. Approximately 4,000 Manchester overspill to be housed shortly. Extensive building already taking place. Next door to clinic. Terrific opening for chemist. Box C 8396.

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**CROYDON.** Drug store, herbal and photo business. Main road, bus stop. Smart shop. Good living accommodation. Net profit £720. Price £850, plus s.a.v. (about £630). "R," 309 London Road, Croydon. C 2409

**DRUG STORES,** formerly pharmacy, large lock-up shop in good position, bus stop, approximately three-quarters-mile nearest chemist. Rapidly growing town in Northants. Kodak and med. wines licence. Freehold, fixtures, etc. Well stocked all at £4,000. Box C 2430.

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## APPOINTMENTS

**18/- per half-inch (min.) and pro rata. Box 2/-**

### BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS

**Post-graduate Student**
**(Male or Female)**

Applications are invited for the post of Post-graduate Student (male or female) in the Pharmacy Department at this hospital. Candidates must comply with the requirements of the Pharmaceutical Society. Remuneration is at the rate of £350 per annum (plus London Weighting according to age). Applications, stating age, particulars of education, etc., with copies of recent testimonials, to be sent to the Hospital Secretary, as soon as possible. C 8379

### BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2

**Pharmacists**

Locum tenens, required, 14-16 gns. a week according to experience. Vacancies from April 1, 1955. Apply immediately to Hospital Secretary. C 8407

### BOSTON COMBINED HOSPITALS (319 Beds)

**Pharmacist**

required. Modern department. Nationally negotiated conditions and salary, at present £450 x £25(5)—£575.

Apply stating age, qualifications, experience (if any) and names of two referees, to the Hospital Secretary, Boston General Hospital, Boston, Lincs.

Locum welcomed for interim period, salary £14 14s. per week. C 8372

### BOW GROUP HOSPITAL MANAGEMENT COMMITTEE

**Pharmacist**

(Part-time: 24 hours per week) required at POPLAR HOSPITAL, East India Dock Road, E.14. Rate of pay 26s. per 4-hour session. Application forms from Group Secretary, 2A Bow Road, E.3. C 8361

### CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, N.W.10

**Senior Pharmacist**

required in large General Hospital. Salary on Whitley Council Scale plus London Weighting. Applications with full particulars to the Chief Pharmacist. C 8402

### CHELTENHAM GROUP HOSPITAL MANAGEMENT COMMITTEE

**Senior Pharmacist**

Applications are invited for the post of Senior Pharmacist at the Cheltenham General, Eye & Children's Hospital. The salary and conditions of service will be in accordance with the Whitley Council decisions (£525 x £25 to £625 per annum) and subject to the National Health Service (Superannuation) Regulations. This is a newly created post and it is intended that dispensing services shall be provided for the in-patients at four other units in the Group.

Applications stating age and experience, together with the names of three referees should be sent immediately to the Group Secretary, Cheltenham General, Eye & Children's Hospital, Sandford Road, Cheltenham. C 8373

### HILL END HOSPITAL, ST. ALBANS, HERTS

**Locum Tenens Chief Pharmacist**

non-resident, required at the above Hospital, half-an-hour's train journey from Central London, from July 18 to September 3, 1955. Salary £15 15s. per week. Applications to Hospital Secretary. C 8348

### MANSFIELD HOSPITAL MANAGEMENT COMMITTEE

**Pharmacist**

Applications are invited for the post of Pharmacist with the above Management Committee. The main Pharmaceutical Department in the Group is situated at King's Mill Hospital, Sutton-in-Ashfield, with a subsidiary Pharmacy at the Mansfield and District General Hospital. Salary—£450 by £25 to £575.

National Health Service Whitley Council conditions. Applications stating age, qualifications, together with the names of two referees to be forwarded as soon as possible to the Group Secretary, Mansfield Hospital Management Committee, Crow Hill Drive, Mansfield. C 209

### METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8 (Acute, 147 Beds)

**Senior Pharmacist**

Applications are invited for the post of Senior Pharmacist (salary £525 x £25—£625 per annum, plus London Weighting). Applications, stating age, experience, qualifications and names of two referees to the Hospital Secretary as soon as possible. C 8408

### NAPSBURY MENTAL HOSPITAL, Near ST. ALBANS (over 2,000 Beds)

**Dispensing Assistant**

required. The Hospital is pleasantly situated and is only 18 miles from London. There are two other Dispensers in the Department. Salary according to Whitley Council scale, age 20, £240 p.a., 21, £275 p.a., 22 or over, £335 rising to £435 p.a. Preference will be given to holders of the Certificate of the Society of Apothecaries of London, or equivalent, for which an additional payment of £15 per annum is payable. Single accommodation can be provided at a reasonable charge.

Written applications with full details of age, experience, qualifications, etc., with names and addresses of two persons to whom reference may be made, to be sent to the Group Secretary. C 8345

### ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 Beds)

**Pharmacist**

required. Salary and conditions of service in accordance with Whitley scale. Applications stating age and experience with the names of two referees to the Hospital Secretary. C 8406

### THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1

**Deputy Chief Pharmacist**

Applications are invited for the post of Deputy Chief Pharmacist. Salary scale £575 x £25—£675 per annum plus London Weighting, plus £25 qualification allowance when applicable.

Further particulars and form of application, which must be returned by May 6, 1955, are obtainable from the undersigned.

H. F. RUTHERFORD,
*House Governor and Secretary.*
C 8399

### WANSTEAD HOSPITAL, HERMON HILL, E.11

**Locum Pharmacist**

required for any three consecutive weeks between June 1 and September 30, 15 guineas per week. Applications with copy testimonials to Secretary, Forest Group H.M.C., Langthorne Road, E.11. C 8350

## SITUATIONS OPEN

**8/6 for 36 words (min.) then 3d. per word. Box 2/-**

**The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.**

### RETAIL (HOME)

**BIRMINGHAM** (centre). Senior lady, used to trade, competent control office own initiative and take intelligent interest in general running of business, book-keeping, typing, buying. Full-time shop hours. Wednesday half-day, congenial post. Galloways, Photographic Chemists, Victoria Square. C 2406

**'UNISEC'** *from the Single Unit to the Complete Pharmacy*
WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING
**MYERS of OLD ST.**
133/5 & 141/7 OLD STREET, LONDON, E.C.1

EST. 1883 BIS. 1941
**C. Ribbands & Sons**
*The Complete Pharmacy Fitters*
*Shopfronts and Interiors*
3 RAVEY ST., BISHOPSGATE, LONDON, E.C.2.

## Situations Open—Continued

**CHESHIRE.** Senior unqualified assistant required to work with qualified principal in busy pharmacy in centre of country town. Must be well experienced in dispensing and counter duties and preferably under forty. Top salary offered to first-class man. Youngs, Chemists, Nantwich. C 2423

**CITY.** Unqualified male, temporary or permanent. Good wages to right applicant. Half-day Saturday, 1 o'clock. No Sunday or holiday duties. Hillman, 5 Liverpool Street, E.C.2. C 2440

**COVENTRY.** Pharmacist required as assistant manager for central pharmacy. Male or female. Permanent position. Good supporting staff. No Sunday, holiday or rota duties; 44-hour week. Superannuation scheme in operation with transfer clause. Minimum salary £845 per annum, plus bonus. Apply with full particulars to Superintendent Chemist, Lockhurst Lane Co-operative Society, Ltd., Holmsdale Road, Coventry. C 2427

**CROYDON.** Lady assistant, unqualified, required chiefly for dispensing in good-class pharmacy. Apply with full particulars stating salary required. Geddes & Cottam, Chemists, Ltd., 143 Wickham Road, Shirley, Croydon. C 2397

**DISPENSING DEPARTMENT** requires lady, under 35. Good-class family dispensing business with ample staff. Help given to find accommodation, and holiday this year. Applicants must have a good standard of work, and be able to mix with other staff. Please give all details of age, previous experience and salary required to Wilfrid E. Dale, Ltd., 27 Market Place, Andover, Hants. C 2436

**DISPENSER/SECRETARY** required by medical practitioners. Partnership in Maidstone, Kent. Non-resident. Full particulars, apply to Box C 2415.

**DONCASTER CO-OPERATIVE CHEMISTS, LTD.,** require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post. Minimum rate £780 per annum, 44-hour week. Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

**EXPERIENCED** unqualified assistant required, lady or gentleman, mainly for dispensing, some counter work when necessary. Permanent post. Apply with full particulars to E. Vowles, 12 Sadler Street, Wells, Somerset. C 2373

**ILFORD.** Excellent opportunity for energetic Pharmacist to manage busy branch in pleasant area. Well-fitted shop. Adequate assistance. Up-to-date dispensary. Progressive salary with monthly bonus and rota duty payments. Modern flat available near branch. Permanency. Apply with full details stating when available for interview to Box C 2433.

**ISLE OF MAN,** (Assistant, unqualified.) Lady or gentleman wanted about the end of May. Capable, energetic assistant with some knowledge of photography chiefly for counter duties. Good salary to suitable applicant. State age, height and reference. Mr. Frank Purcell, Photographic Chemist, 97 Strand Street, Douglas, Isle of Man. C 2420

**LADY DISPENSING ASSISTANT** required for coastal market town pharmacy. Easy hours, salary according to age and experience. Apply to Allen & Neale (Chemists), Ltd., 55 High St., Kings Lynn, Norfolk. Phone: 2459. C 2363

**LONDON, W.C.1.** Young lady required as counter assistant in busy modern pharmacy. Congenial position with Saturday half-day. Holiday with pay this year. Apply with usual particulars to Mr. Hancock of A. R. Cross, Ltd., 240/241 High Holborn, London, W.C.1, or phone Holborn 7379 for appointment. C 8386

**MAYFAIR.** Young lady counter assistant required immediately. Hours 8.30-5.30. Saturday half-day. Excellent salary for suitable applicant. Blake, Sandford & Blake, Ltd., 47 Dover Street, Piccadilly, W.1. Hyd. 2579. C 2429

**NORTH-EAST COAST TOWN** (pleasant seaside resort). Pharmacist required to manage easily worked dispensing business with adequate supporting staff. Salary, bonus and rota fees. Exceptional prospects of advancement. Modern house provided at reasonable rental. Interview necessary, expenses paid. Box C 8391.

**PART-TIME PHARMACISTS,** 10s. per hour, required. N.1, N.16, E.C.1, and Ilford. Some evenings 6-8 and/or Sunday mornings. Dispensing duties. Apply Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8385

**PHARMACIST,** lady or gentleman, required as Assistant, mainly for dispensing. Hours 9 a.m. to 6 p.m. Adequate supporting staff. Commencing salary £15 per week. Good experience for a young Pharmacist. J. W. Douglas, Ltd., 164 Lambeth Walk, S.E.11. (Within easy distance from Charing Cross.) C 212

**PHARMACIST REQUIRED** for the position of Branch Manager, male or female. Applications in writing stating age, experience, and wage required together with copies of recent testimonials to the General Manager, Heckmondwike & District Co-operative Society, Ltd., 3 Oak Street (P.O. Box No. 16) Heckmondwike. (Suitable house available.) Endorse envelope "Chemist" in the top left-hand corner. C 2417

**PHARMACIST REQUIRED** for West End Shop. Must be young and energetic. Small dispensing, mainly counter trade, other staff. Good salary and prospects for suitable applicant. Telephone: Temple Bar 3367. C 2375

**SCOTLAND.** Pharmacist wanted as manager with or without opties for modern pharmacy in Dykehead Cross, Shotts, Lanarkshire. A good salary will be paid with liberal commission on all sight-testing, and entry to Superannuation Scheme after initial period of service. An excellent four-apartment semi-bungalow is also available. Applications in writing stating age, experience, and when available to: Mr. G. M. Archibald, M.P.S., Technical Supervisor, S.C.W.S., Ltd., Retail Drug Department, 187 Bogmoor Road, Glasgow, S.W.1. C 2421

**TEDDINGTON.** Excellent opportunity for Pharmacist to manage family-type business in pleasant riverside district. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Apply with full details stating when available for interview to Box C 2432.

**WALTHAMSTOW.** Dispenser, unqualified. Comfortable berth, convenient dispensary. Usual shop hours. Permanency. Particulars please to Box C 2428.

**WANTAGE, BERKS.** Lady dispenser bookkeeper. Rooms provided. Drs. Squires, Seward and Loudon. C 2392

**WEST HARTLEPOOL.** Pharmacist required to manage branch pharmacy. Modern shop and dispensary. Adequate supporting staff. Good initial salary plus bonus. Superannuation scheme in operation. Pleasant house with garden provided at modest rental. Expenses paid for interview. Superintendent, Hartlepools Co-operative Chemists, Ltd., West Hartlepool. C 8390

**WHETSTONE.** Pharmacist required to manage spacious well-fitted branch with substantial counter trade in pleasant North London suburb. Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Permanency with superannuation benefits, etc. Apply with full details stating when available for interview to Box C 2434.

## LOCUMS WANTED

**CROYDON AREA.** Pharmacist requires additional unqualified assistance in dispensing and general duties from approximately mid-May to end of August. Whole or part-time by arrangement. Good-class business. Box C 2410.

**IMMEDIATELY.** Locum or permanency. Pharmacist required in middle-class retail and dispensing business in S.W. London. Give details of experience and salary expected. Apply W. J. Boyes, Ltd., 61 Balham Hill, S.W.12. C 2443

**PHARMACIST REQUIRED,** for either long or short periods, to take full charge of pharmacies, mainly in the South London area. Good salary and expenses allowance. Undeniable references essential. Please give all details of previous experience and dates available to Managing Director, Arnold M. Gee, Ltd., 12 High Street, Colliers Wood, S.W.19. C 2437

**LOCUM PHARMACISTS REQUIRED** for London and Suburban areas, long or short periods. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 2435

## WHOLESALE

**A BRITISH PHARMACEUTICAL** company of international repute require young executive to control veterinary section of sales department. Qualification is not essential but successful candidate must be sufficiently experienced to undertake veterinary correspondence and compilation of literature and advertising. Apply in writing in first instance giving full details of past experience to Box C 8342.

**ADVERTISING ASSISTANT**

Parke, Davis & Co., Ltd., require a young pharmacist in their Advertising Department. He will be involved in all aspects of Advertising and Sales Promotion and in particular the compilation and presentation of medical literature from technical information provided, some literary ability is therefore an advantage. Generous pension plan, five-day week, staff restaurant. Write in the first instance giving full particulars of experience and present salary to:—

**Personnel Manager,**
**Parke, Davis & Co., Ltd.,**
**Staines Road, Hounslow, Middlesex.**
C 8405

**A LEADING PHARMACEUTICAL HOUSE** has opening for young man, National Service completed, aged 20-30, training to fill indoor import/export selling/purchasing position, some previous experience wholesale trade. French and German an advantage. Reply, stating experience, age, salary required to Box C 8388.

**ANALYST REQUIRED** by a leading firm of pharmaceutical manufacturers in Manchester. Applicant must be well-qualified and fully experienced to take charge of a control laboratory for raw materials and finished products. Reply, giving fullest possible details, including salary required to Box C 8376.

**AN EXPERIENCED REPRESENTATIVE** required for South Staffs and North Birmingham by a well-known company selling nationally to chemists and good grocers, products supported by national advertising. Substantial basic salary, bonus, exceptional pension, life insurance, and dependants' benefit scheme. Car allowance. Full details to Box C 8395.

**AN EXCELLENT OPPORTUNITY** occurs for a young man with some retail and/or wholesale experience to join an old-established Drug House in the Sales Department as Assistant to the Sales Manager. The gentleman appointed will be enthusiastic, energetic and would be willing to make a career with us in the Sales Department, aged 21-25 years, single. Apply, giving full details of experience, age, etc., to Sales Manager, John Richardson & Co. (Leicester), Ltd., Evington Valley Road, Leicester. C 8392

**AN EXPERIENCED REPRESENTATIVE** required by nationally known house of perfumery manufacturers for a territory comprising Kent, Surrey, Sussex, Berks, Oxon, South London and the West End. Applicants should have an established connection amongst retail chemists, departmental stores and co-operative societies on the ground indicated. Remuneration is by way of salary, expenses and commission. Write with fullest details to Saville Perfumery, Ltd., Rickmansworth Road, Watford, Herts. C 213

**ASPRO, LTD.,** invite applications for the appointment of a production chemist. Applicants should hold a qualification in science or pharmacy and possess suitable experience in the production of tablets, powders, ointments and liquid preparations. Write with essential details of experience to the Personnel Manager, Aspro, Ltd., Trading Estate, Slough, Bucks. C 8400

**REPRESENTATIVE** calling on chemists and fancy goods houses to carry additional lines of cheap/medium sunglasses. Good commission basis. Apply Box C 2445.

**STAFFORD ALLEN & SONS, LTD.**
require technical sales representative for Midlands. Applicants must have M.P.S. or A.R.I.C. qualification and have had selling experience to the manufacturing industries. Write giving full particulars to the Secretary, 20 Wharf Road, N.1. C 8393

**EXPORT MANAGER**
An established and expanding ethical pharmaceutical company of the highest repute has a vacancy for an Export Manager. Applicants should preferably have some experience in overseas marketing of ethicals and be prepared to travel. This is an outstanding opportunity, particularly for a younger man. Replies will be treated in strict confidence and should be addressed to Managing Director, Box C 8319.

## *Situations Open—Continued*

**AN OPPORTUNITY** occurs for a young male pharmacist to join the editorial staff of THE CHEMIST AND DRUGGIST. The position entails sifting information on all aspects of pharmaceutical affairs and preparing it for publication: a service indispensable to the profession. Experience of the work is not required, but an inquiring mind and some gift for writing are essential. Salary is according to qualifications and experience. Applications should be sent to The Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2. C 8294

**A WELL-KNOWN** ethical pharmaceutical house invite applications for the position of medical representative in the Glasgow area. The territory available is an established one. Previous experience is not essential as training is given. Candidates should possess a sound pharmaceutical background, reside on and know the territory well. The position is a progressive one and remuneration is by way of salary, commission and expenses. Applications with full details will be treated with strictest confidence. Box C 8323.

**BOOTS PURE DRUG CO., LTD.,** invite applications from pharmacists for positions in their pharmaceutical factories at Beeston near Nottingham. The vacancies are in the production departments, development department and drug warehouses and offer interesting work and good prospects to suitable applicants. The positions are permanent and pensionable after six months' service. Applications should be addressed to the Personnel Manager, Station Street, Nottingham. C 8344

**BOTTLE TRAVELLER WANTED.** Salesman/representative required with previous experience in selling bottles, jars and screw caps. Write giving full particulars to Reliance Trading Company, 13 New College Parade, Finchley Road, London, N.W.3. C 8366

**CHEMIST REQUIRED** by progressive internationally known firm in Southern England. Degree in chemistry or equivalent. Some experience in cosmetic or pharmaceutical fields essential. Preferably age 30-40. Good commencing salary to the man with the right qualities and experience. Rapid progress and bright future for man of ability and real enthusiasm. Write fully to Box C 8389.

**CLERICAL ASSISTANT** (male or female) to manager of essential oils department of City produce merchants. Knowledge of essential oils and shorthand/typing an advantage but not imperative. Write Box C 8381.

**COST CLERK,** male or female, required by manufacturing chemists. Apply, stating previous experience, which is essential, salary required, to Box C 8397.

**CUSSONS SONS & CO., LTD.,** Kersal Vale, Manchester, 7, makers of Imperial Leather Soap, require a representative to cover Wiltshire, Somerset and Dorset. Applications giving fullest details of experience, age, etc., should be addressed to the Sales Manager. C 8403

**DALMAS, LTD.,** Leicester, wholesale chemists, manufacturers of surgical adhesive plasters and pharmaceuticals require additional representatives to call on chemists. Applications are invited for the following areas: (a) Liverpool, Cheshire and North Wales; (b) Gloucester, Oxon, Wilts, Dorset. Applicants must have a sound knowledge of the wholesale trade and must be resident on the territory selected. Salary, expenses and commission. Company car supplied. Apply by letter stating age, education, previous experience and salary required, to Sales Manager, Dalmas, Ltd., Junior Street, Leicester. C 8409

**EVANS MEDICAL SUPPLIES, LTD.,** Ruislip, invite applications for post of Medical Representative in Kent and East Sussex. Apply to General Manager stating age, and details of education, training and experience. C 8380

**EXPERIENCED MEDICAL REPRESENTATIVE** with good contacts required in South Wales by firm of leading manufacturing chemists marketing ethical proprietaries in the United Kingdom. Good salary and generous expenses allowed. Car owner essential. Pension scheme. Please give full details of experience in initial application. Box C 8370.

**GOYA** have a vacancy for a first-class representative in the North and West Riding of Yorkshire and the North Lancashire area. Experience of selling to chemists and departmental stores essential. Applicants should have had a good education and be of smart appearance. Please write, giving full details of past experience and age to the Sales Manager, Goya, Ltd., Badminton Court, Amersham, Bucks. C 8410

**JOHN BELL, HILLS & LUCAS, LTD.,** invite applications for post as representative in Eastern Counties. Please send full details of age, experience, etc., to the Secretary, John Bell, Hills & Lucas, Ltd., Worsley Bridge Road, Lower Sydenham, S.E.26. C 8368

**LABORATORY ASSISTANT** for perfumery and cosmetic factory in North London. Good starting salary and prospects, pension scheme, 5-day week. Some laboratory experience essential, and keen sense of smell a great asset. Please write fully stating age and present salary to Box 4413, Frost-Smith Advg., 64 Finsbury Pavement, London, E.C.2. C 8369

**MANAGER'S ASSISTANT, FEMALE,** required by well-established London manufacturer of hospital and laboratory supplies. Commencing salary £9 per week. Five-day week. Apply to Manager, Esco (Rubber), Ltd., 34-36 Somerford Grove, London, N.16. C 8363

**MEDICAL REPRESENTATIVE.** Owing to expansion, a well-known ethical house wish to appoint a first-class man to take over their established connection in South Yorkshire. Previous experience in this field of work is not essential but candidates must have a good technical background. The position is pensionable and remuneration is by way of salary, commission and expenses. Residence in or near Sheffield is desirable. Write in confidence giving full details of previous experience, etc., to Box C 8322.

**MEDICAL REPRESENTATIVE** required immediately by Lederle Laboratories in Northamptonshire and Leicestershire area. Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience with an ethical house or detail work among doctors and hospitals. Congenial, well-paid post backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied. Fullest details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2. C 8375

**MEDICAL REPRESENTATIVES.** Pharmaceutical Specialities, May & Baker, Ltd., Dagenham, Essex, invite applications from pharmacists and others with a good medical background, for various parts of the country. Remuneration is based on qualifications and experience; contributory pension scheme. Opportunities for advancement in the United Kingdom organisation and overseas. Apply initially in writing, giving full details, to the Personnel Officer, quoting reference No. 92. C 8358

**OLD-ESTABLISHED PROPRIETARY FIRM,** expanding, requires young representative North London and Home Counties. Should reside North of River. Salary, commission, expenses. Car supplied. Unique opportunity for educated man with experience. Full details in confidence. Box C 2438.

**PARKE, DAVIS & CO., LTD.,** invite applications from pharmacists for the position of Head, Sterile Products Department. The position offers scope for development of a modern and expanding department. Five-day week. Staff restaurant. Generous pension plan. Write giving full particulars of age, qualifications and experience to Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. C 8378

**PHARMACIST** with view to works managership required for manufacture and distribution of galenicals and sterile preparations. Excellent opportunity for young, able, and industrious person. Apply Managing Director, 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8382

**PHARMACIST REQUIRED** by West of England firm, aged 25/35, with some manufacturing experience, to take control of Galenical Laboratories. Box C 8347.

**PRICING CLERK** required. Experienced in drugs and patents. Salary £500 p.a. for right person. Apply Managing Director, Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8383

**REPRESENTATIVES.** In this issue of THE CHEMIST AND DRUGGIST you will see an advertisement regarding SCHERK FACE LOTION and SCHERK FACE MILK.
Representatives with good connections with Chemists, Hairdressers, Wholesalers, etc., are required by a top-ranking firm of Continental Toilet Preparations Manufacturers who are preparing to launch their products on the English Market. A full-scale National Advertising Campaign is scheduled to commence in *Woman*, *Woman's Own*, etc., on June 2.
Although remuneration will be on a commission basis at first it will not be a question of "Pioneering" as full-scale National Advertising will create immediate demands.
The areas open are:
The whole of London; Yorkshire and/or Counties North thereof; Surrey, Sussex, Kent; the Home Counties; Cornwall, Devon, Somerset; all Counties east of the line Lincolnshire, Huntingdonshire including same; Northern Ireland.
This is an excellent opportunity for the right men.
Write in the first instance to SCHERK, LTD., 66 Victoria Street, S.W.1, giving details of area covered, period between visits and type of other lines carried. C 8394

**REPRESENTATIVE** for prominent manufacturing and wholesale chemists in veterinary field. Calling on qualified veterinary profession only. To take over sound connection in Wales, Midland Counties, Norfolk and Suffolk. These areas have been fully developed. Car provided, good salary and quarterly turnover bonus. Usual expenses. Give fullest personal details, including age, and experience, etc., in confidence. Box C 8371.

**REPRESENTATIVE** with pharmaceutical background and recent connection among chemists near Manchester, to sell drugs, galenicals, etc. Salary £350/£400 according to experience and opportunity to earn as much again from commission. Please supply full details which will be treated in strict confidence. Box C 2442.

**REPRESENTATIVE REQUIRED** by wholesale chemists' sundries house to take over an established connection in Manchester and district. Previous experience essential. Car provided or allowance on own car. Apply Heath Bros. & Sons, Ltd., 98/100 Chapel Street, Salford, 3. C 211

**REPRESENTATIVE REQUIRED** for Midlands working from Birmingham office. Good salary, commission and expenses. Full details and whether car available to Box C 8387.

**REPRESENTATIVES.** Genatosan, Ltd., a member of the Fison Group, require additional chemists' representatives, as the result of reorganisation. The following territories will be vacant:—(a) South Yorkshire; (b) Devon, Cornwall, Somerset and Dorset; (c) North Lancashire, Cumberland and Westmorland. Applicants must have pharmaceutical qualification or background, or good selling experience. These posts are well remunerated and superannuated. Applications, in confidence, must contain complete details of age, education and experience, and be addressed to The Personnel Officer, Genatosan, Ltd., Loughborough, Leicestershire. Please quote Ref.: C/R. C 8346

**ROBERT BLACKIE, LTD.,** have a vacancy for a representative, preferably a man who has had a pharmacy training to take over an existing connection in London, north of the river. Good remuneration and commission. Resident in or near London. Apply, giving fullest details of age, experience, etc., 25 Pomeroy Street, London, S.E.14. C 8330

**TABLET MAKER,** experienced in all processes, required for small expanding department in West London factory. Five-day week. Congenial post. Write, in confidence, stating wages required. Box C 8374.

## RIKER

Riker Laboratories Limited invite applications from pharmacists for the post of Medical Representative for Northern England. This post provides the opportunity of joining a rapidly expanding pharmaceutical company marketing the products of two American research organisations. Previous experience in medical representation is not necessary as full training will be given. Remuneration is by salary, bonus, expenses, and a car is provided. There is a company pension scheme in operation. Apply in writing to the Sales Department, Morley Street, Loughborough, marking the envelope "Representative." C 8412

## MEDICAL REPRESENTATIVE

British subsidiary of leading American ethical pharmaceutical house have a vacancy in South Wales area for a Medical Representative. Pharmaceutical or medical background essential. Good starting salary and expenses. Car provided. Pension scheme. Applications, with full particulars of age, qualifications, experience and salary required in writing only, to the General Sales Manager, G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1. C 8411

## IMPORTANT

**Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.**

### *Situations Open—Continued*

**SALES MANAGER.** Manufacturing chemists in Northern England, marketing range of proprietary products known the world over, are appointing sales manager. Candidates, preferably between thirty and forty years of age, should have had previous experience of merchandising and active selling in this field. Responsibilities include work on marketing plans, and vigorous supervision of representative staff. The appointment is full of interest and of challenge, and after a period of qualification there is a pension scheme. Applicants are asked to detail their work to date, and state salary required. All information will be regarded as confidential; all applications will be acknowledged; and should be addressed to Managing Director, Box C 2414.

**STERILE INJECTION DEPT.** Operators and fillers required by Biorex Laboratories, Ltd. Apply 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 8384

**URGENTLY REQUIRED.** Experienced male packer/checker for wholesale and manufacturing chemist suppliers. Five-day week. Apply Willows Francis, Ltd., 73/75 Shacklewell Lane, Dalston, E.8. C 8401

### WHOLESALE (OVERSEAS)

**LEADING OIL COMPANY** has vacancy for Pharmacist in Middle East. Applicants must be under 35 years of age and hold M.P.S. Attractive salary plus generous allowance in local currency, free passages out and home, free medical attention, kit allowance, good leave arrangements. Pension scheme. Write, stating age and full details of qualifications, quoting Dept. F.94 to Box 1397, c/o 191 Gresham House, E.C.2. C 8404

## SITUATIONS WANTED

**3/- for 18 words (min.) then 2d. per word. Box 1/-**

### WHOLESALE

**ADVERTISING.** Ideas, reading matter, artwork for leaflets, booklets, etc., by publicity man with trade experience. Part-time available (London). Box C 2391.

**FIRST-CLASS REPRESENTATIVE** (middle-age) seeks appointment Southern Counties. Late hospital representative. Energetic, dependable, excellent personality. Clean driving licence. Box C 2441.

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**WE WILL PURCHASE** for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020, 7692. C 140

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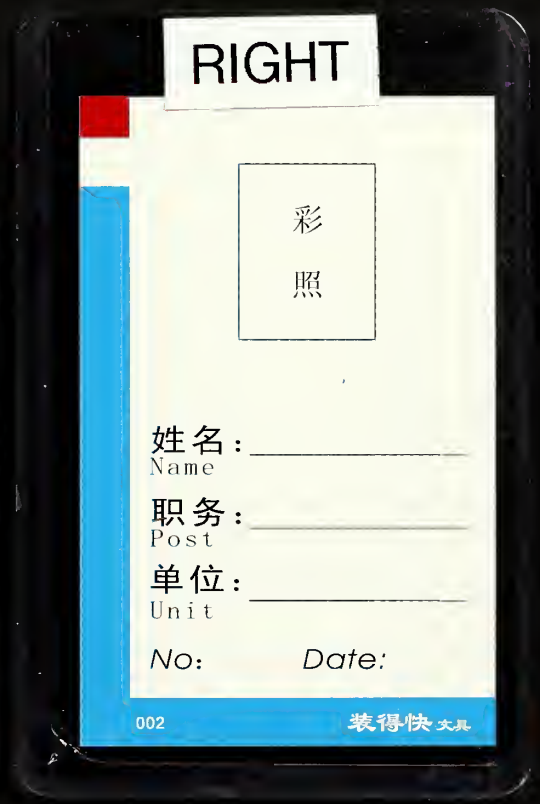
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